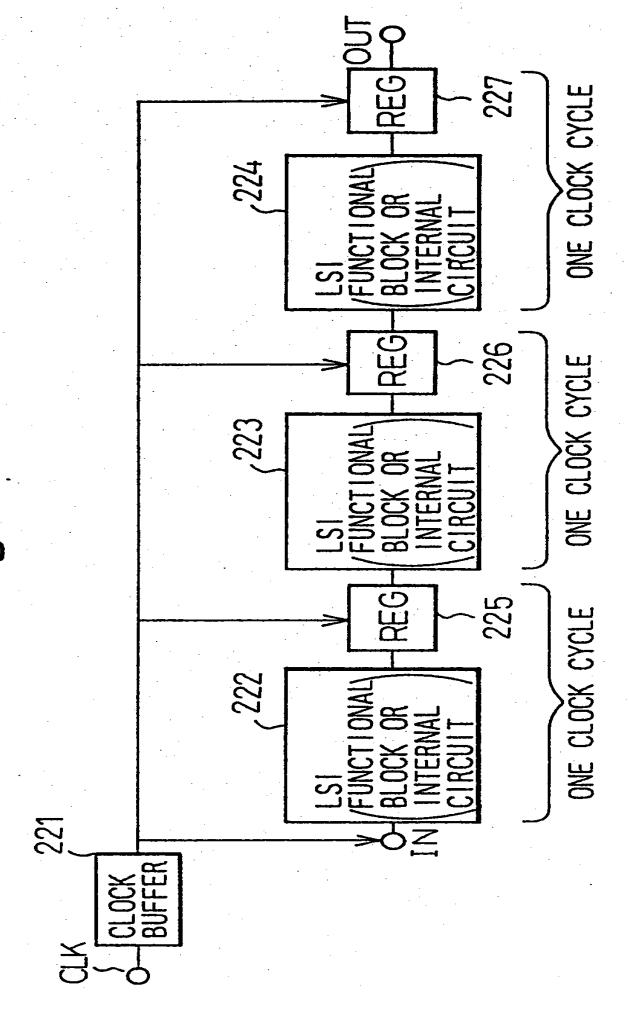


Fig. 2 (PRIOR ART)



OUTPUT DETERMINAT OUTPUT DETERMINATION <u>ට</u> **DETERMINATION** FOOUT FOUTPUT Fig. 3(PRIOR ART) MIRING MIRING - ACCESS PHASE SHIFTER ACCESS TIME (3 CYCLES)-WIRING /BF60U INO-IVB PHASE SHIFTER ★CYCLE TIME > WIRING ACCESS TIME-INO-11/B PHASE SHIFTER EXTERNAL CLK SETPUT A FERRED TO

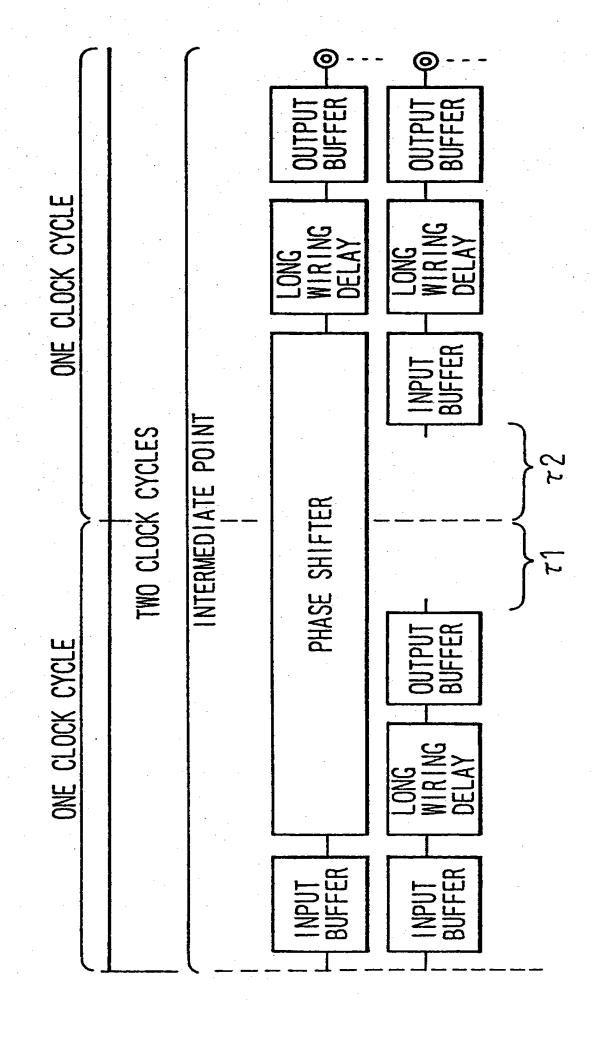
WIRING MIRING

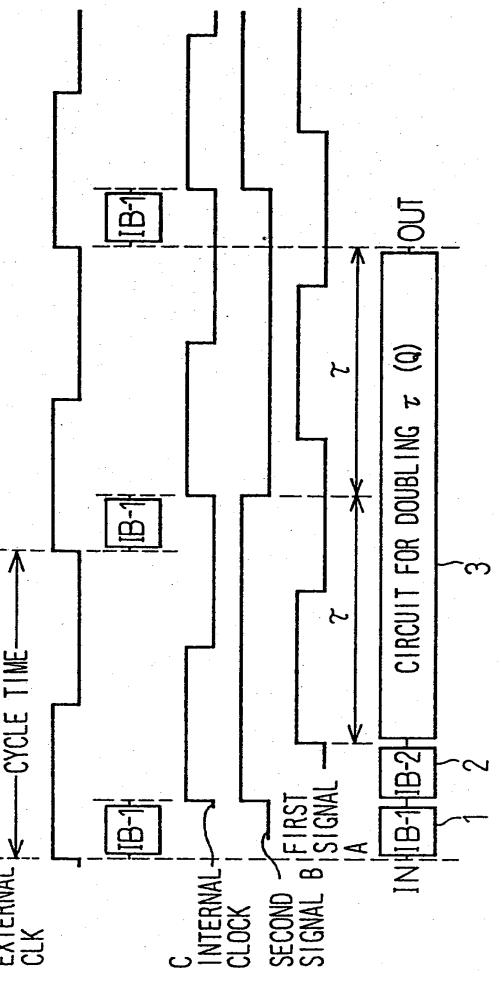
PHASE SHIFTER

INO I/B

ACCESS TIME-

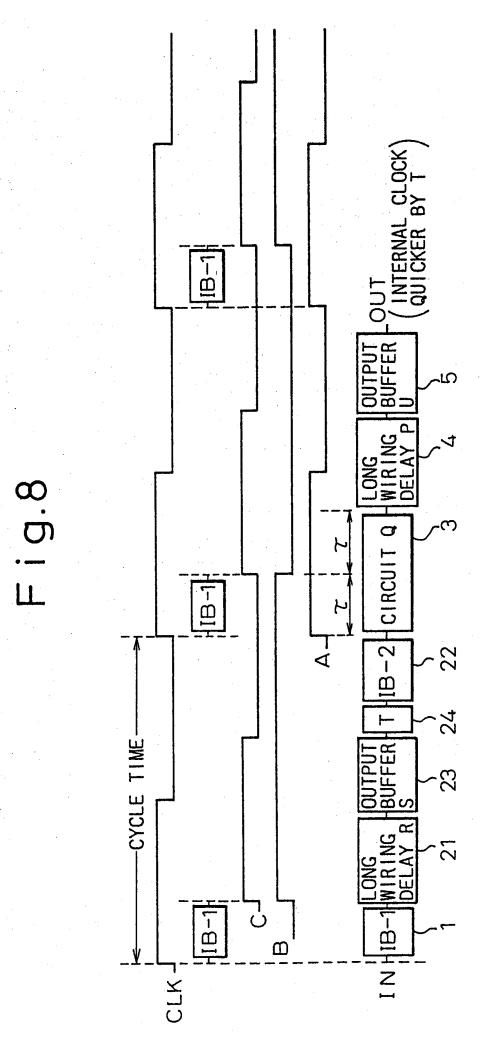
F i g. 4

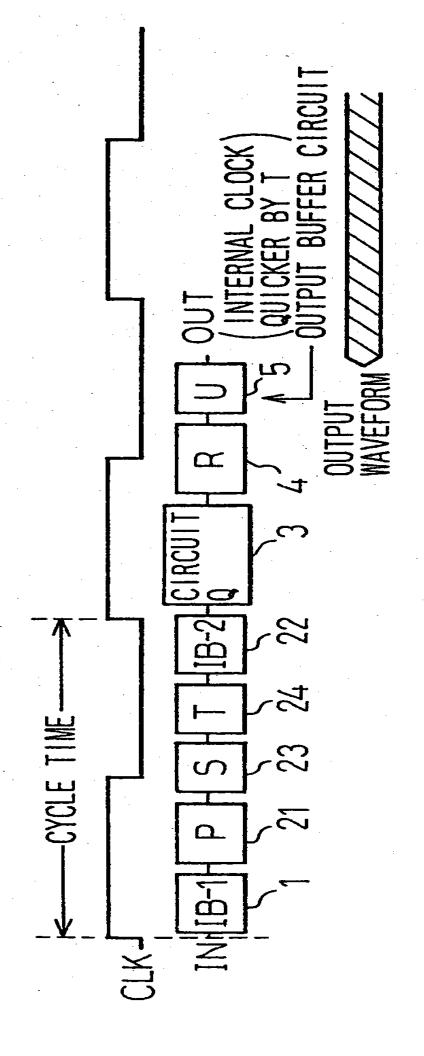


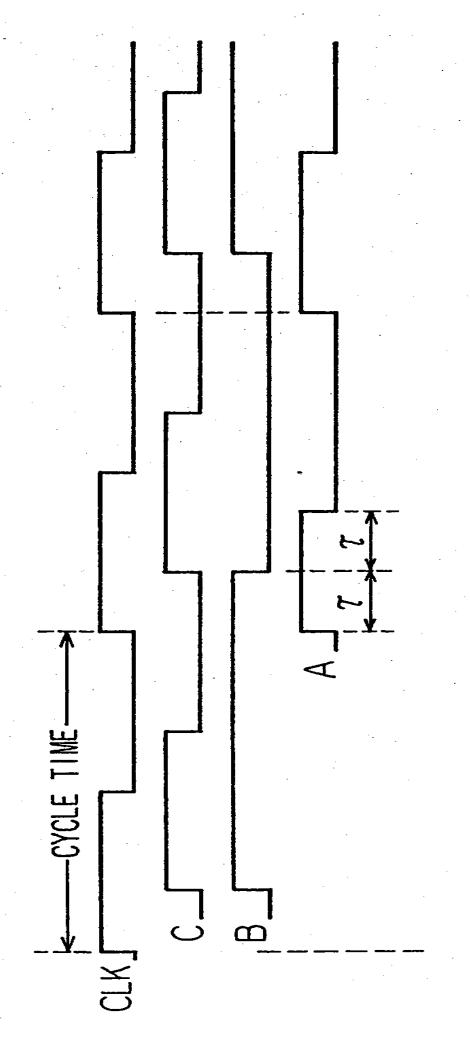


F i g.6

Fig.7







F i g.10

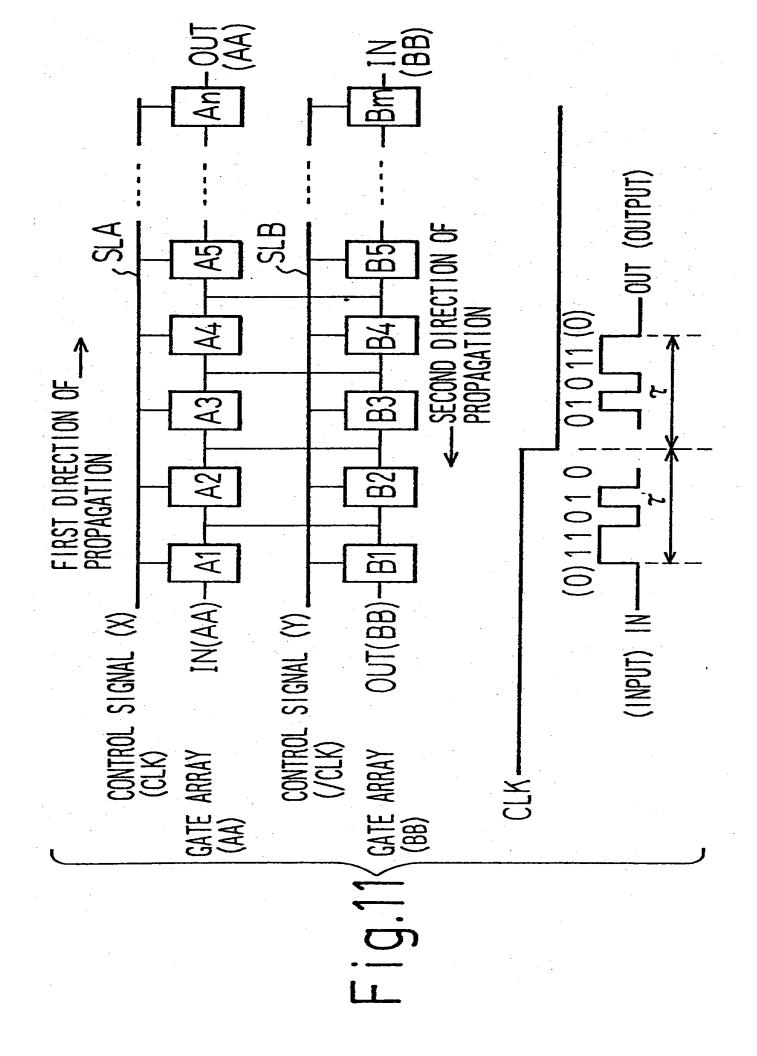
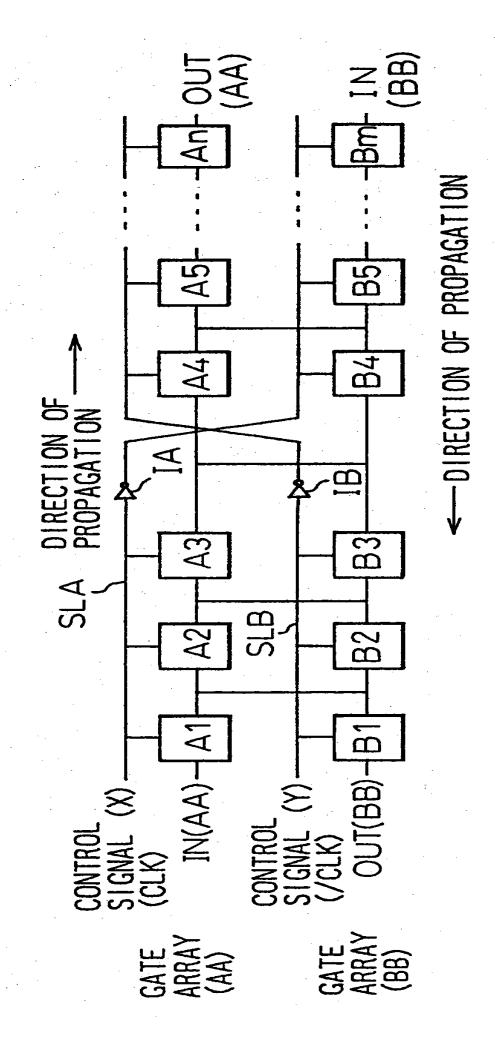


Fig. 12



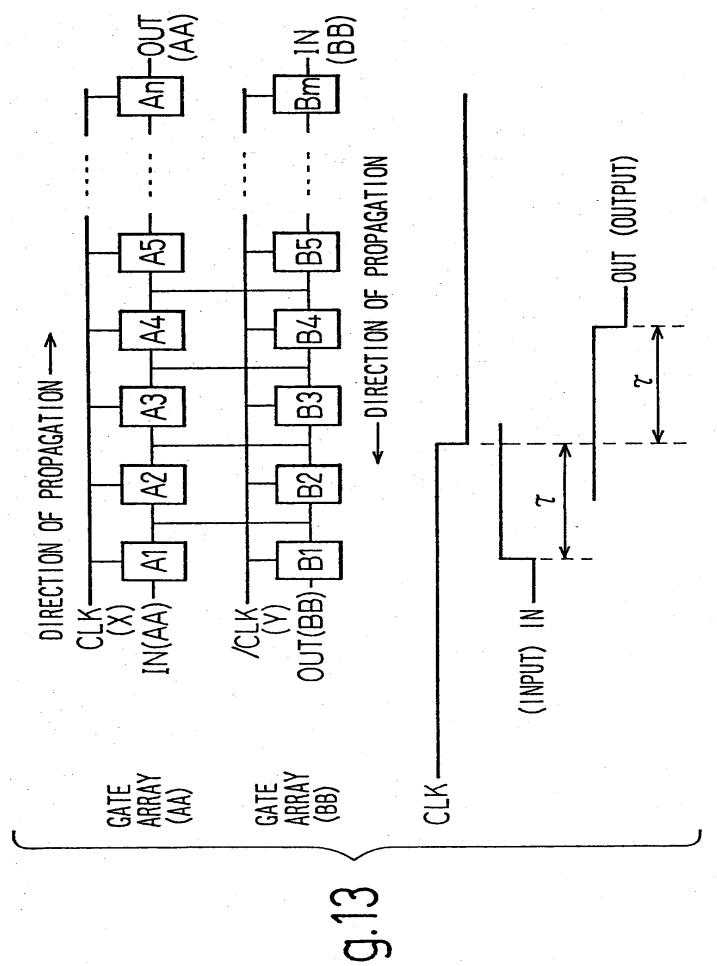
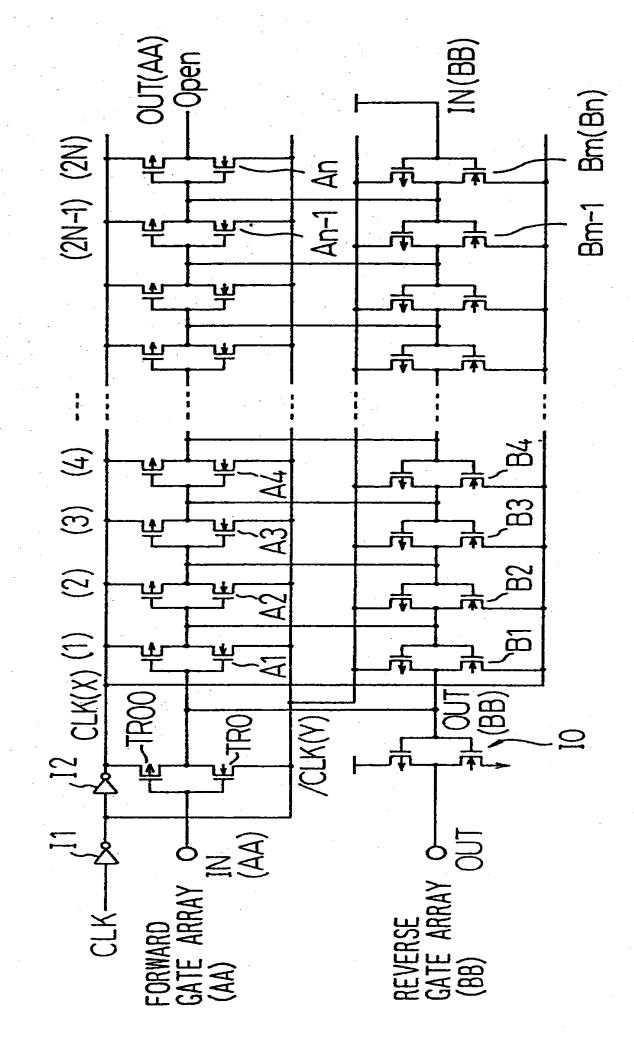
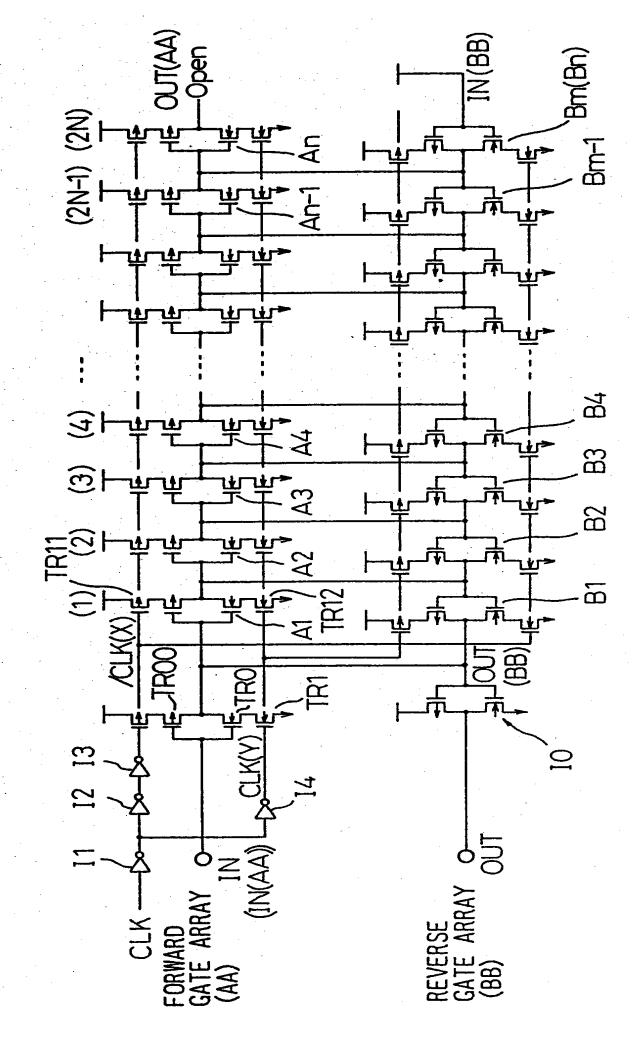


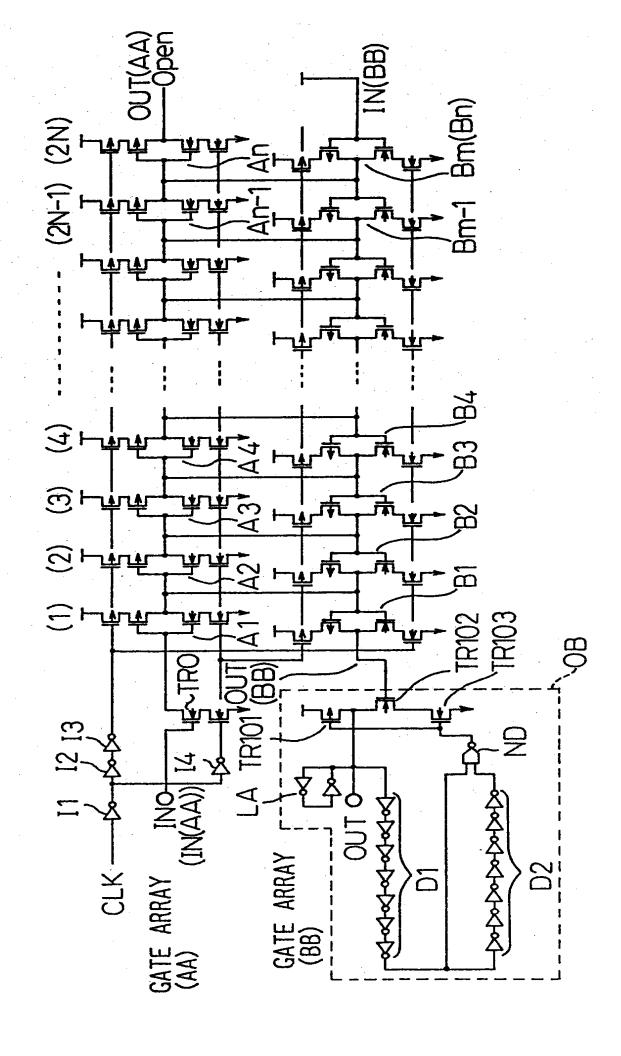
Fig.13

F i g.14

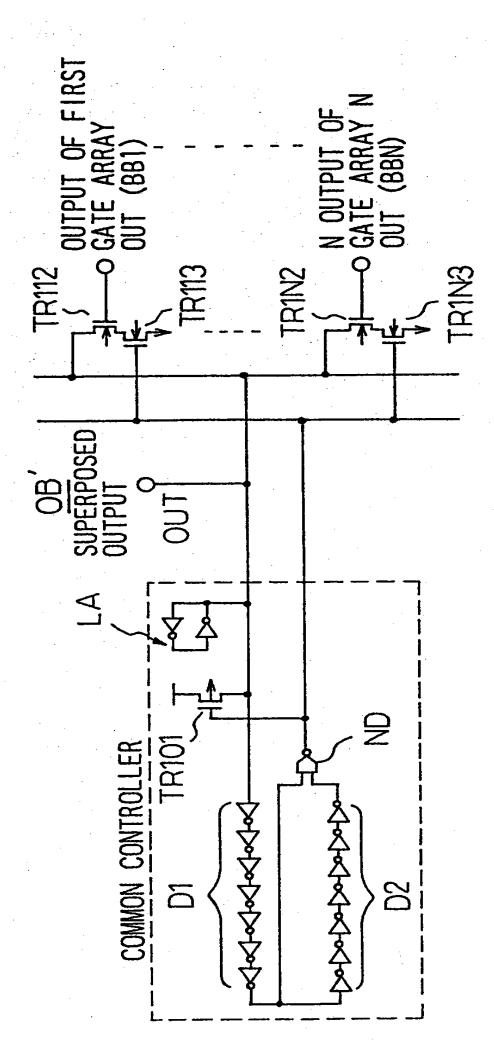


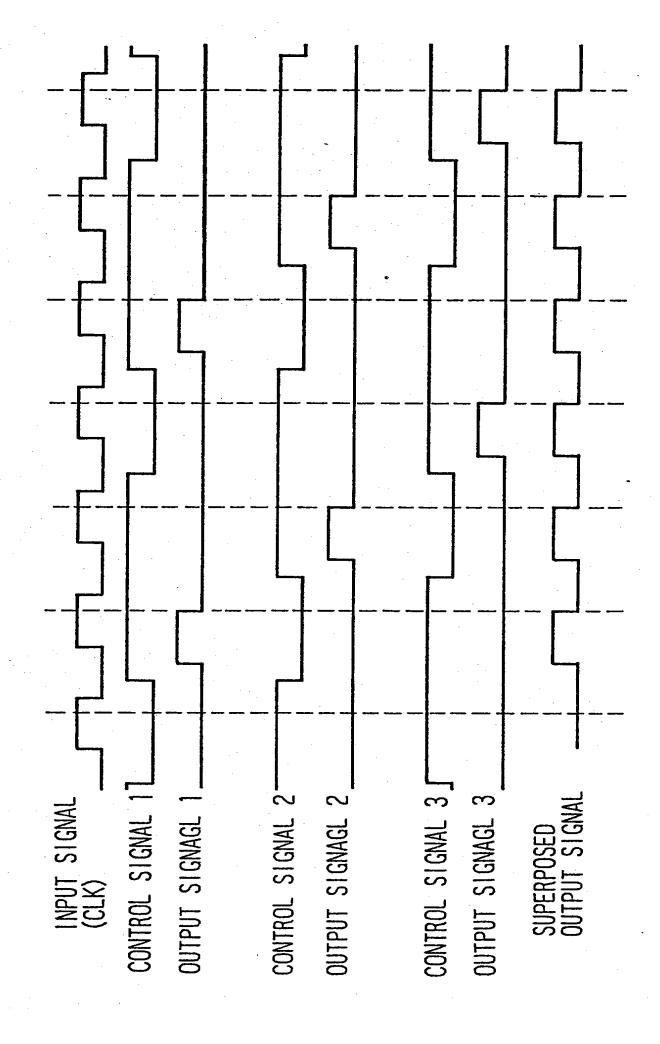


(C)



F i g. 17





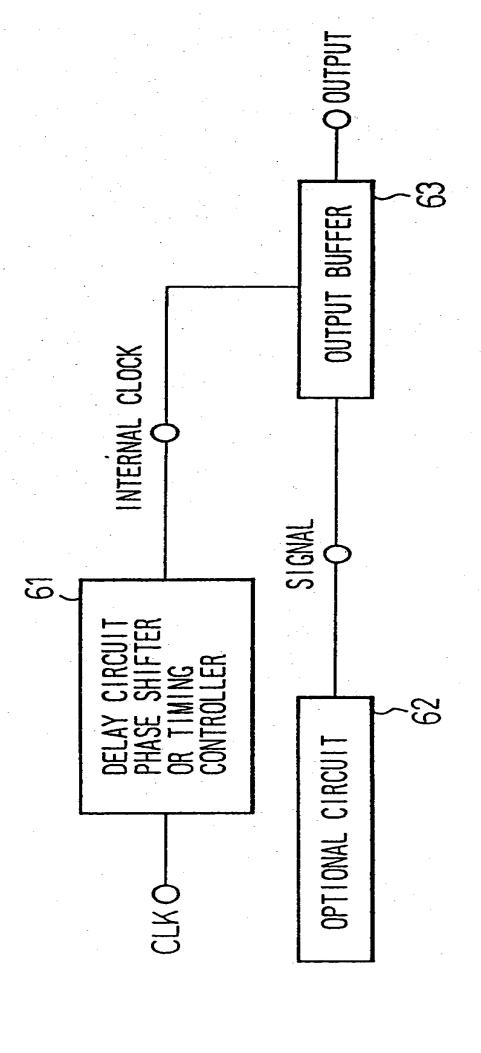
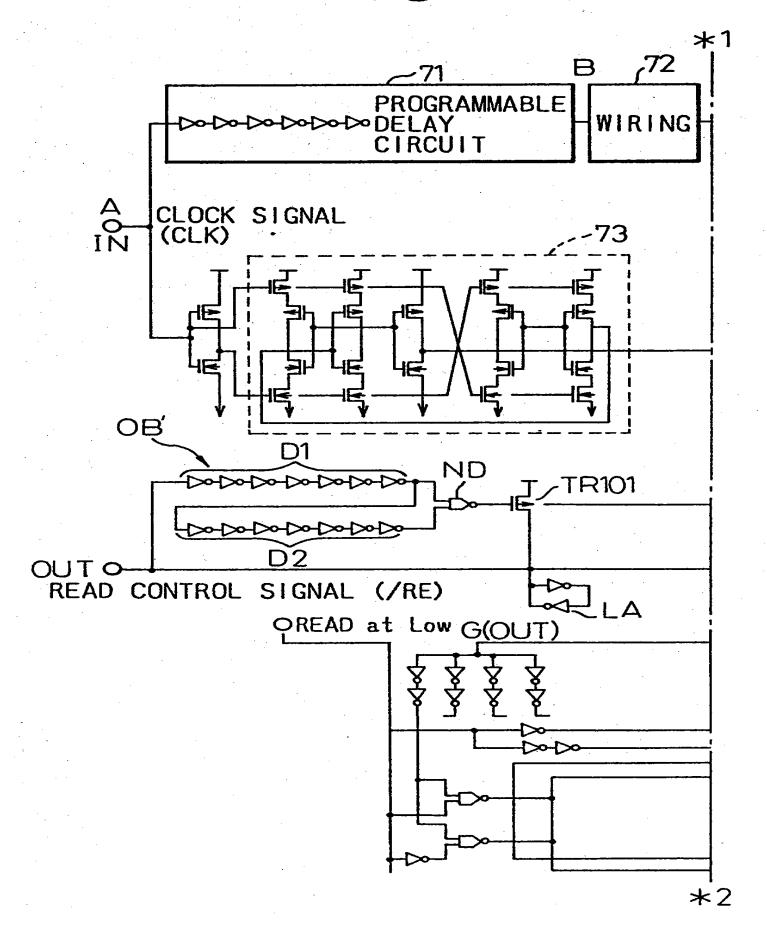
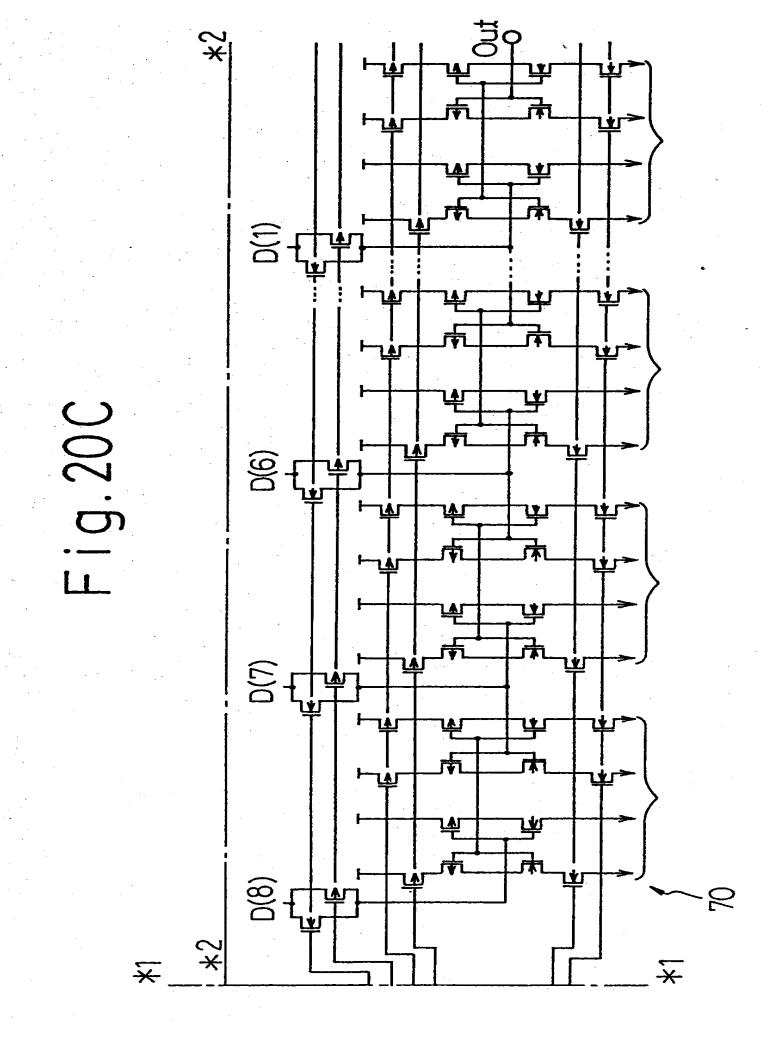
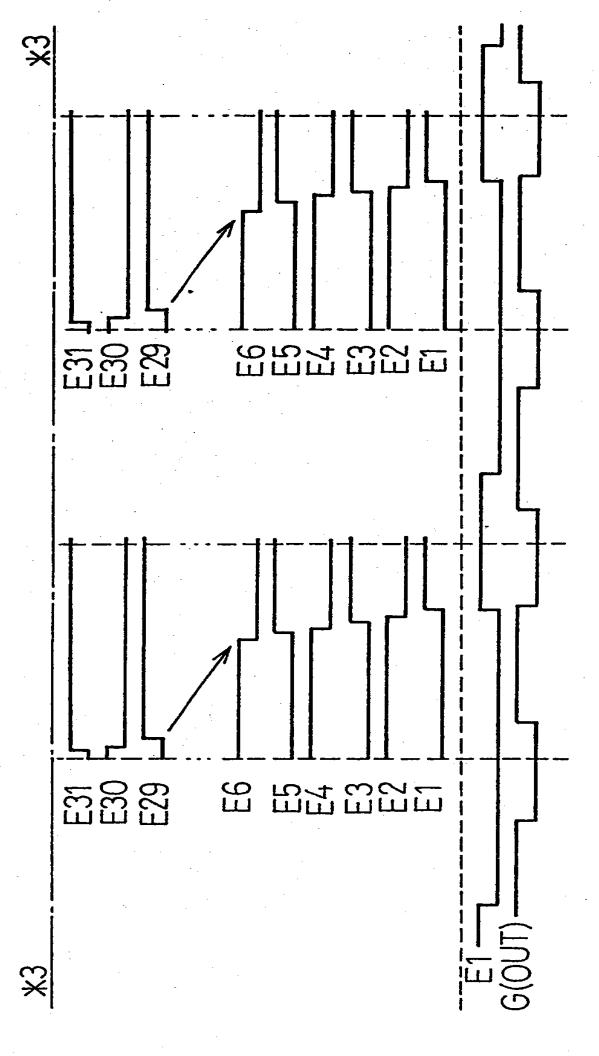


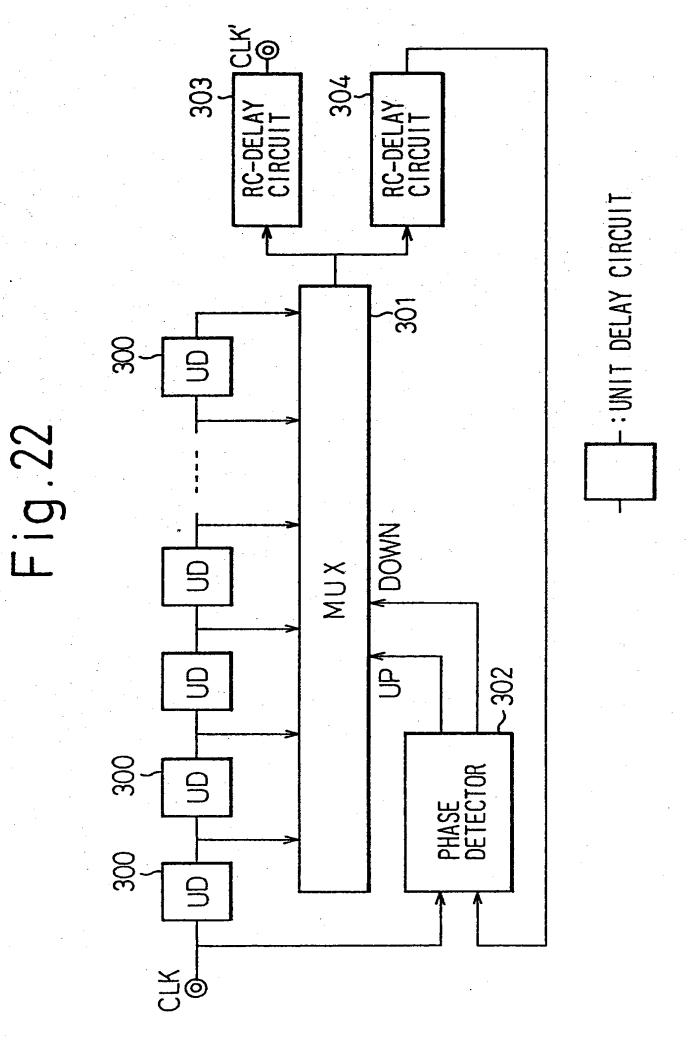
Fig. 20A





F i g.21A





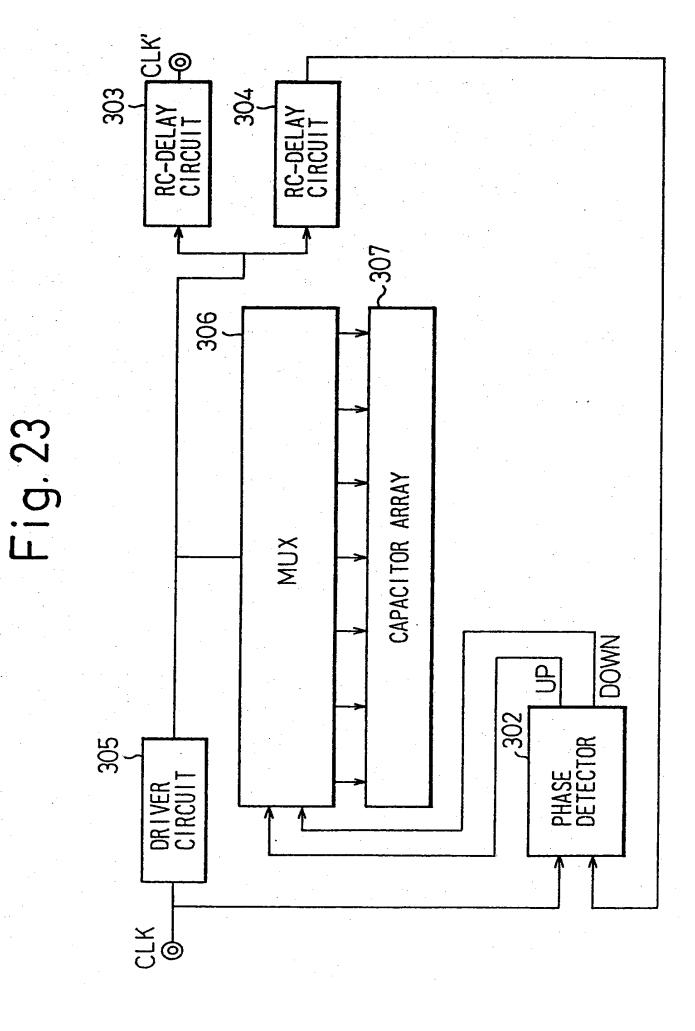


Fig. 24

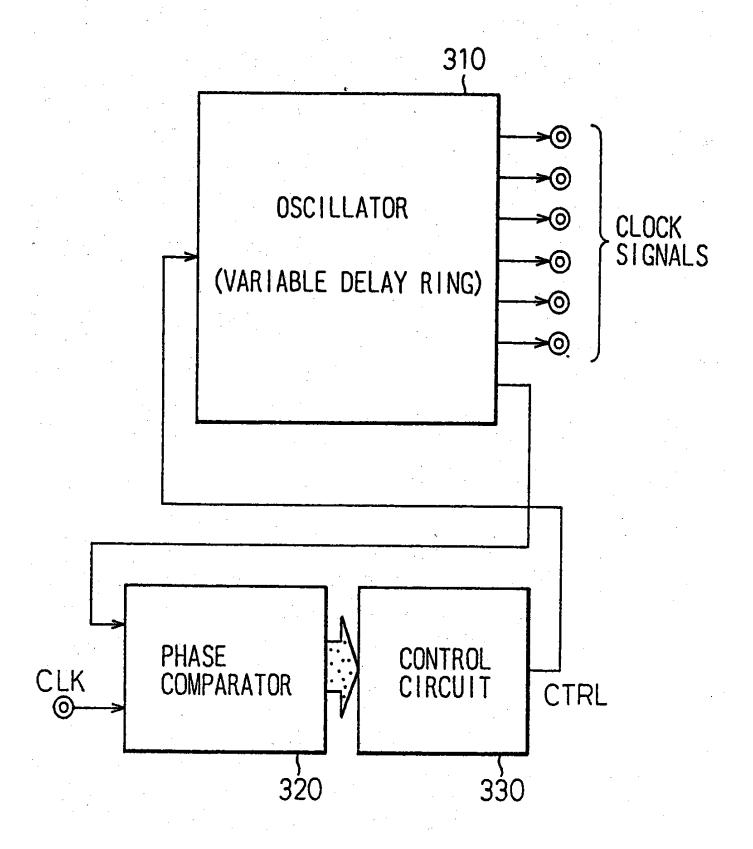


Fig. 25

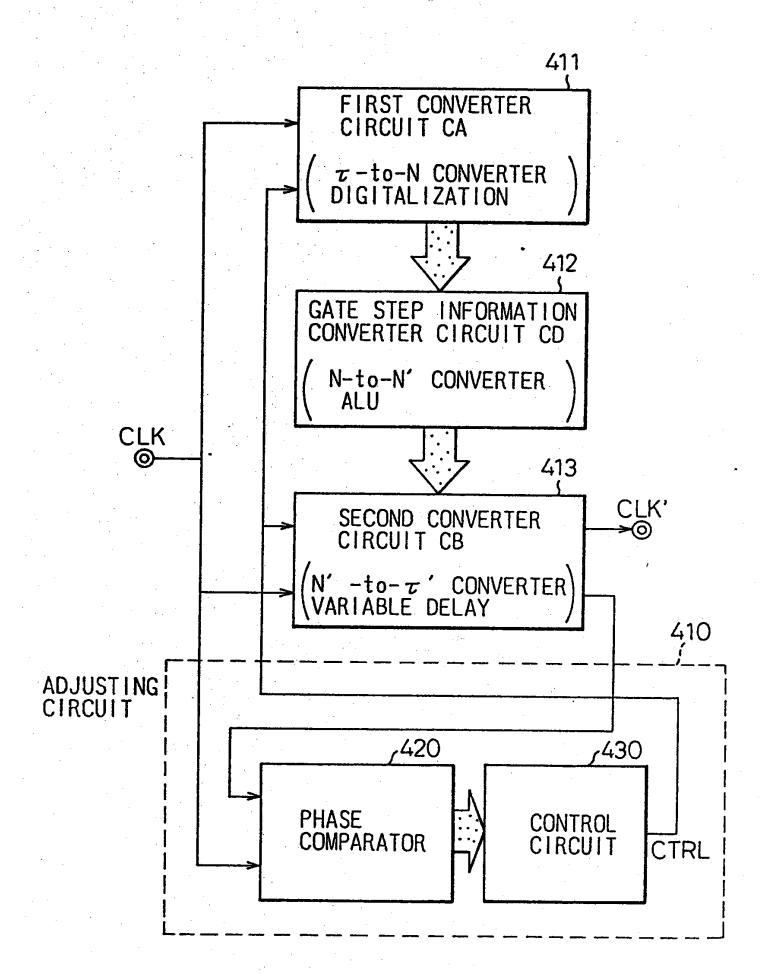
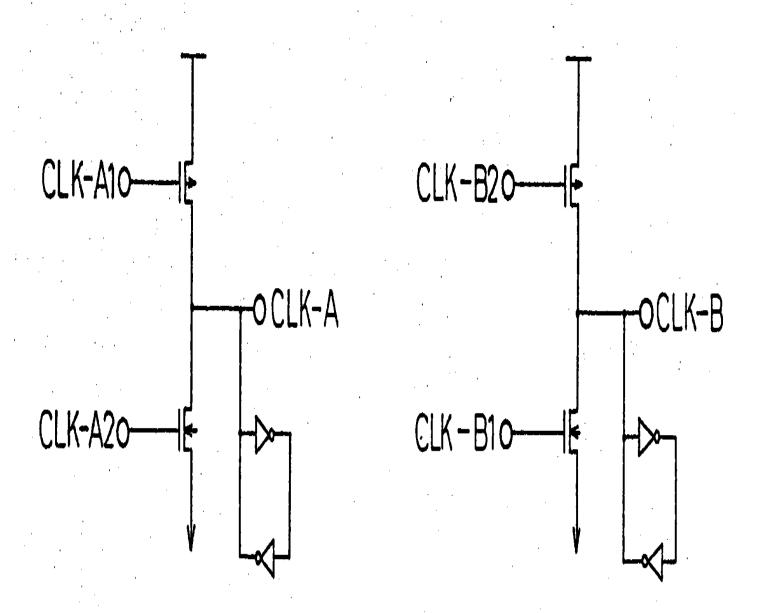


Fig.26A D₁ CLK-A 0 τ-to-N CONVERTER CLK-B CD N-to-N' CONVERTER IN OUT N' -to-τ' CONVERTER -CB D2 Fig. 26B ,CA D₁ CLK-A 0 UA UA CLK-B UA UA UA ÇD N-to-N' CONVERTER IN ÇE 0 **RST RST** RST **RST** RST CB OUT UB 0 UB UB UB UB D2

Fig. 27A

Fig. 27B



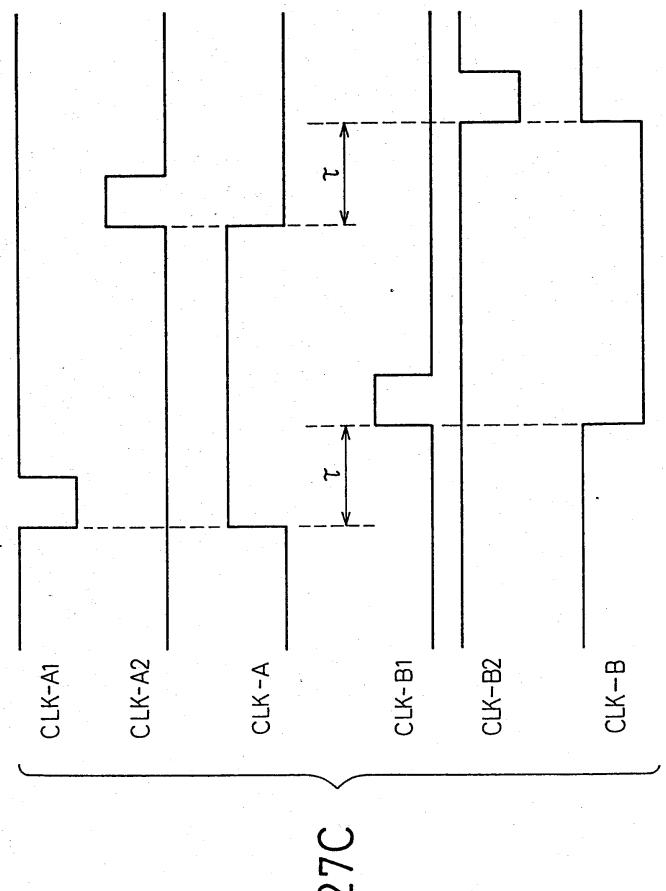
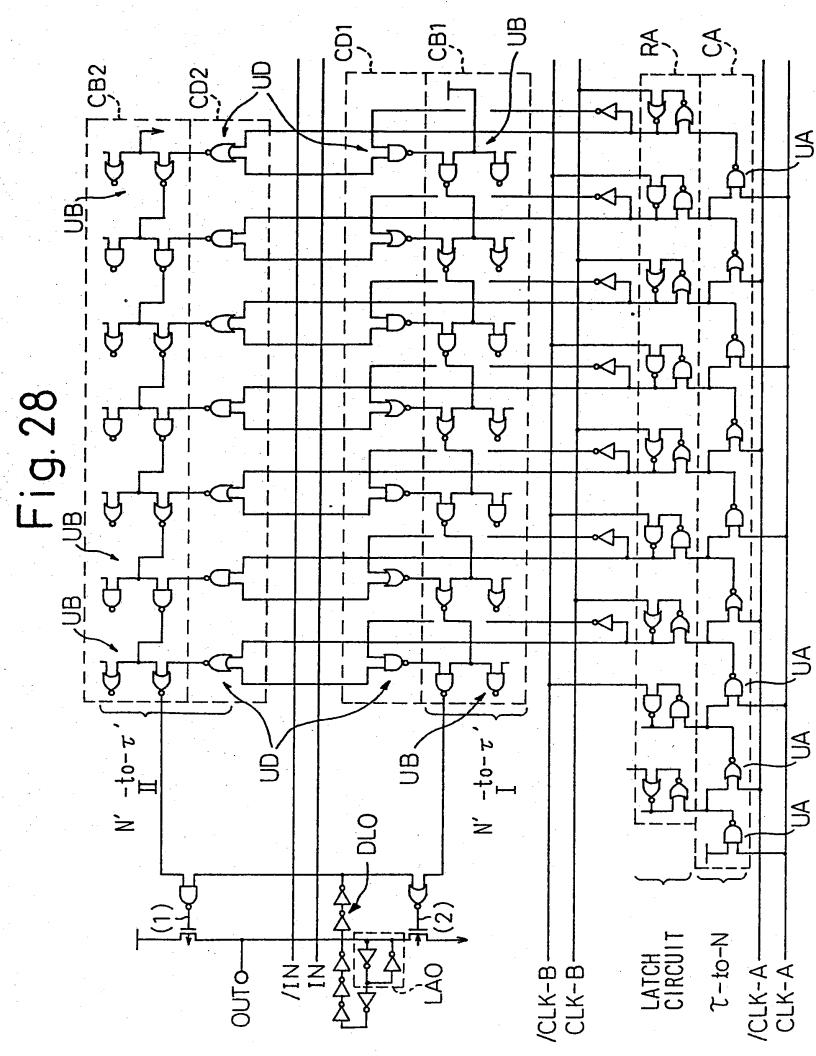


Fig. 27C



-ig. 29

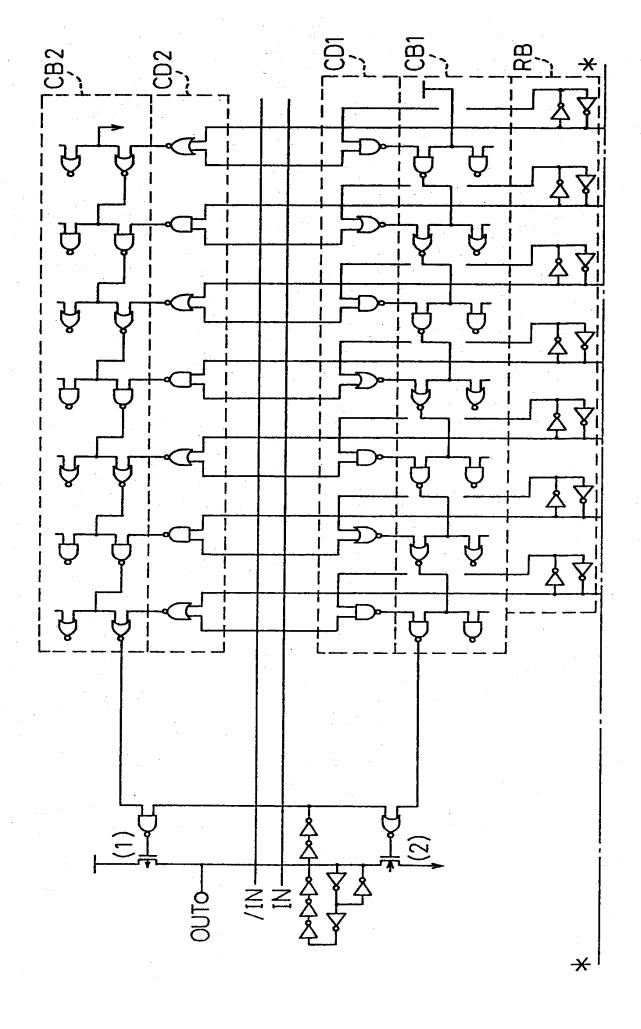
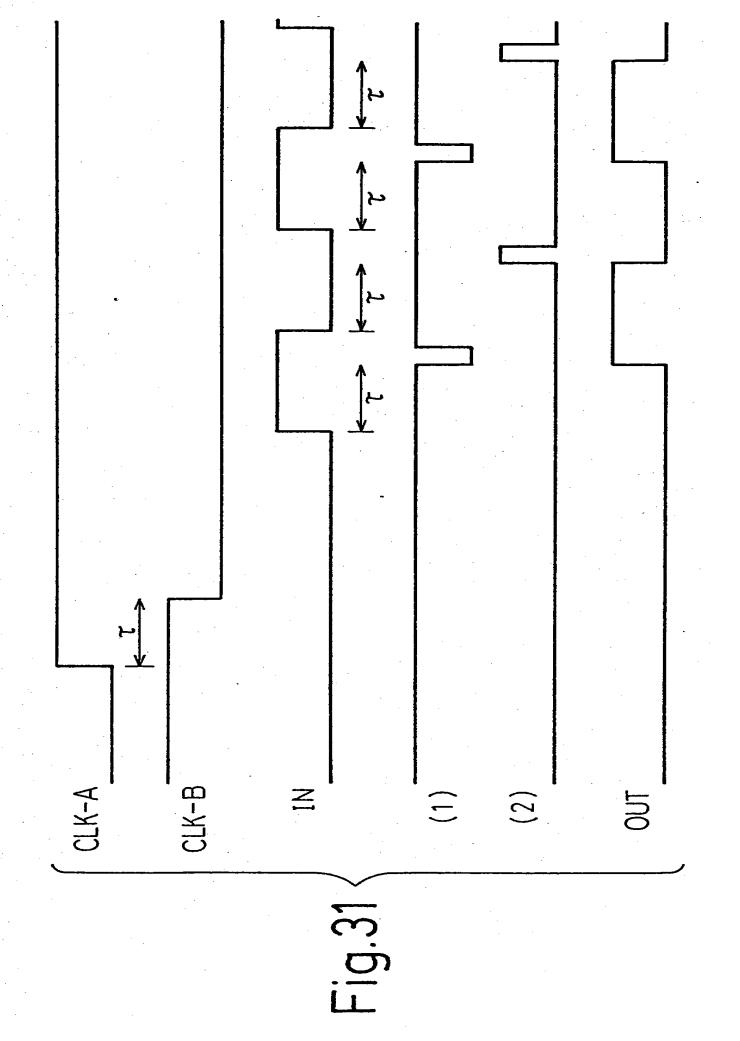
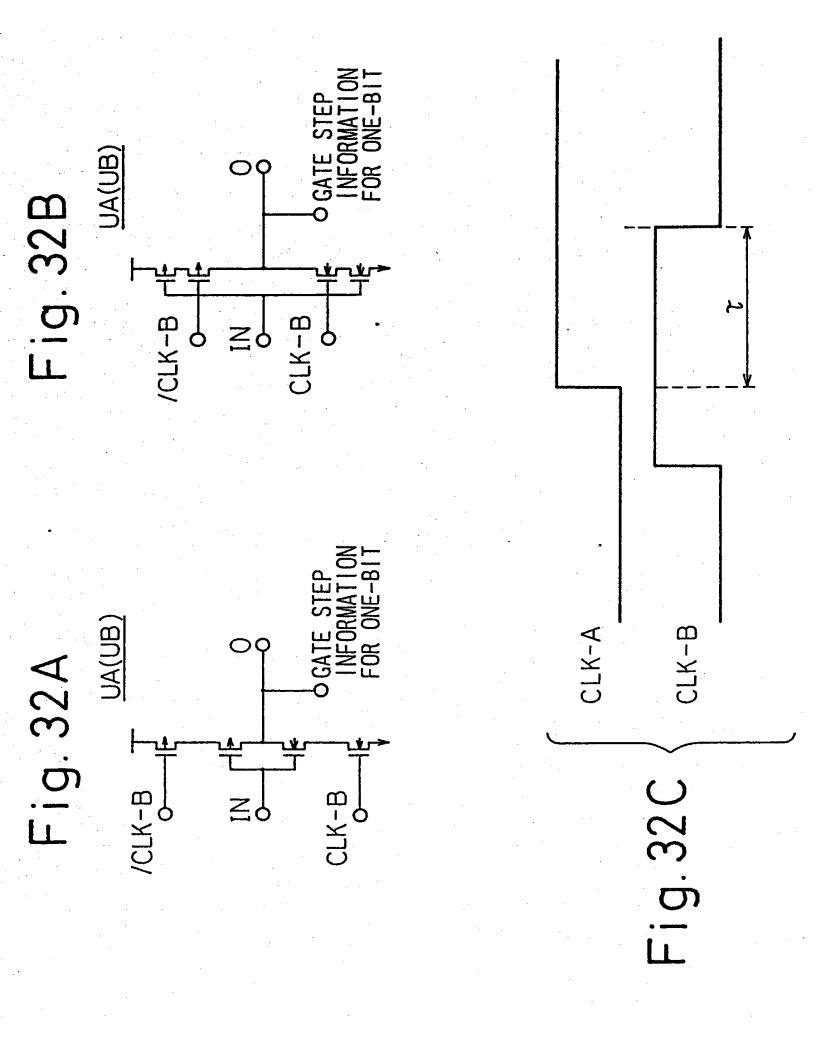
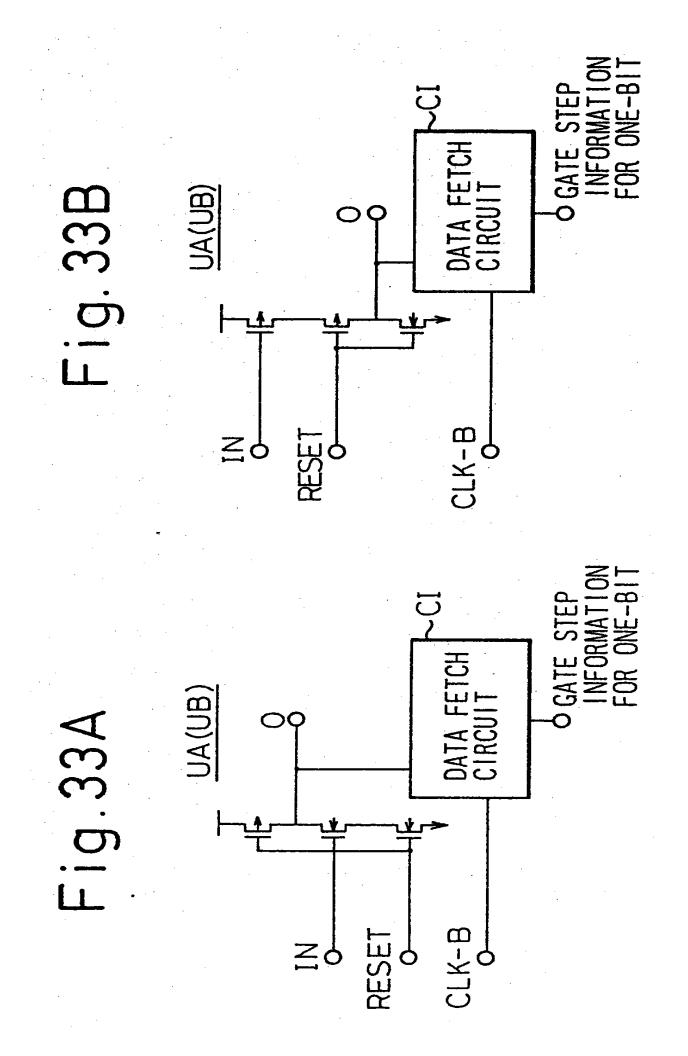


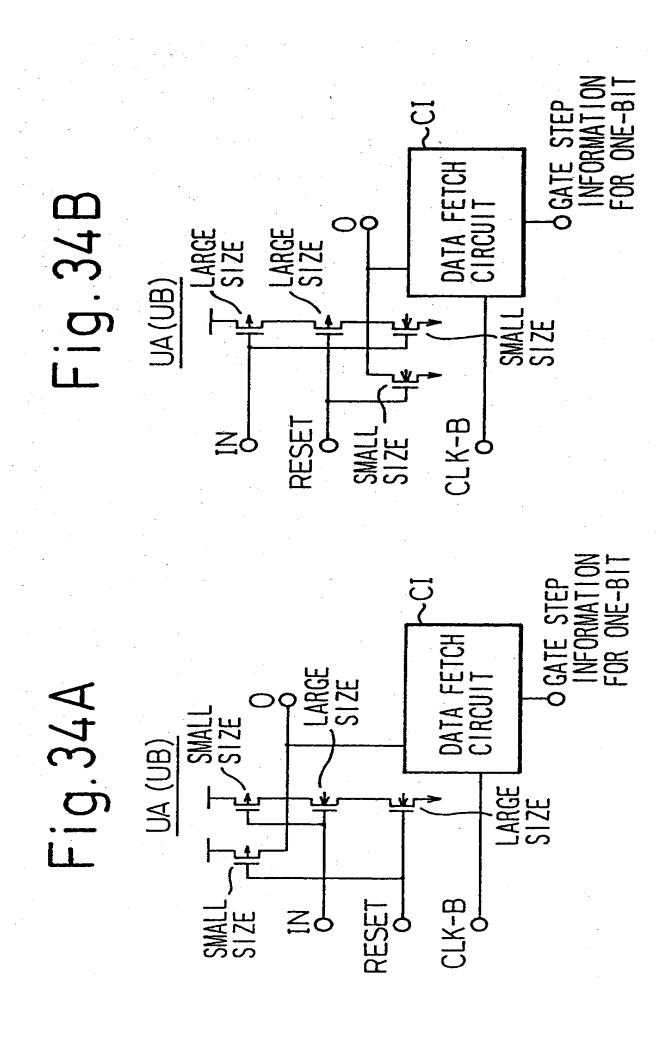
Fig. 30B \times

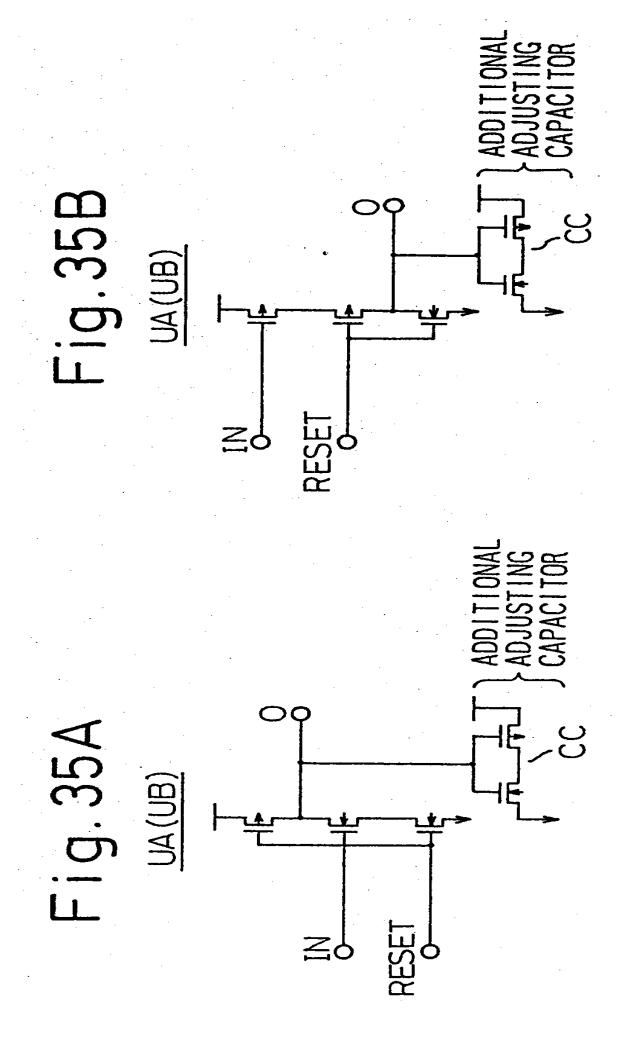
* /CLK-B-CLK-B-/CLK-A-

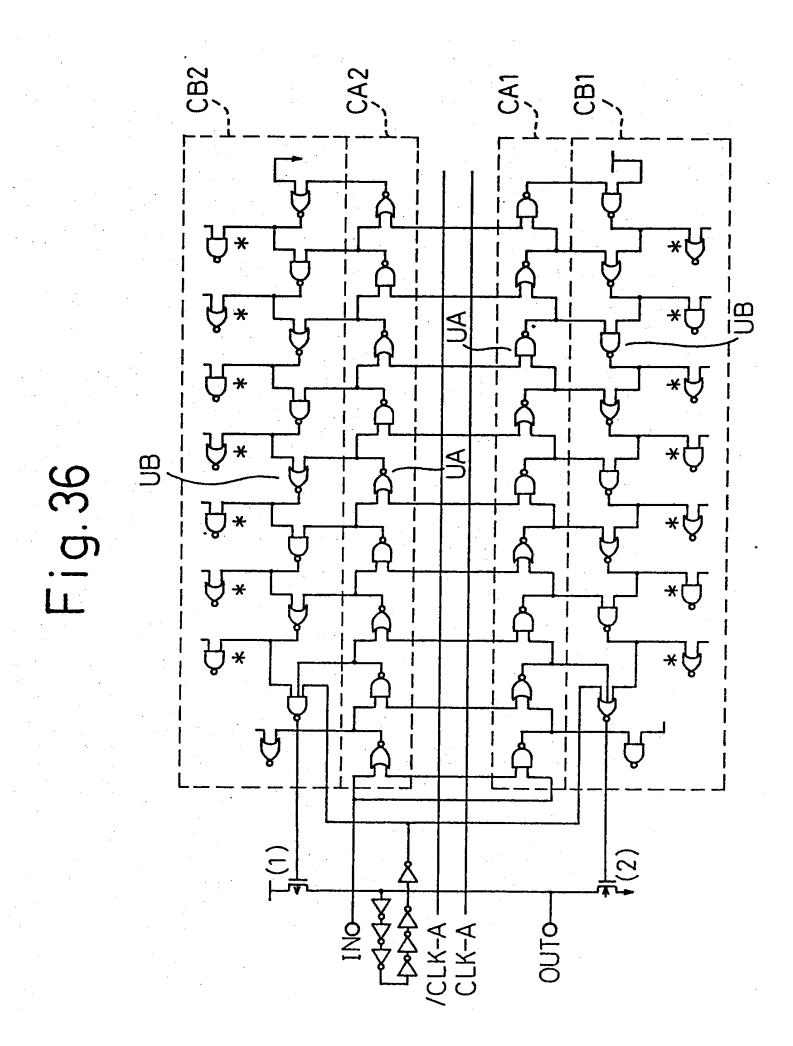












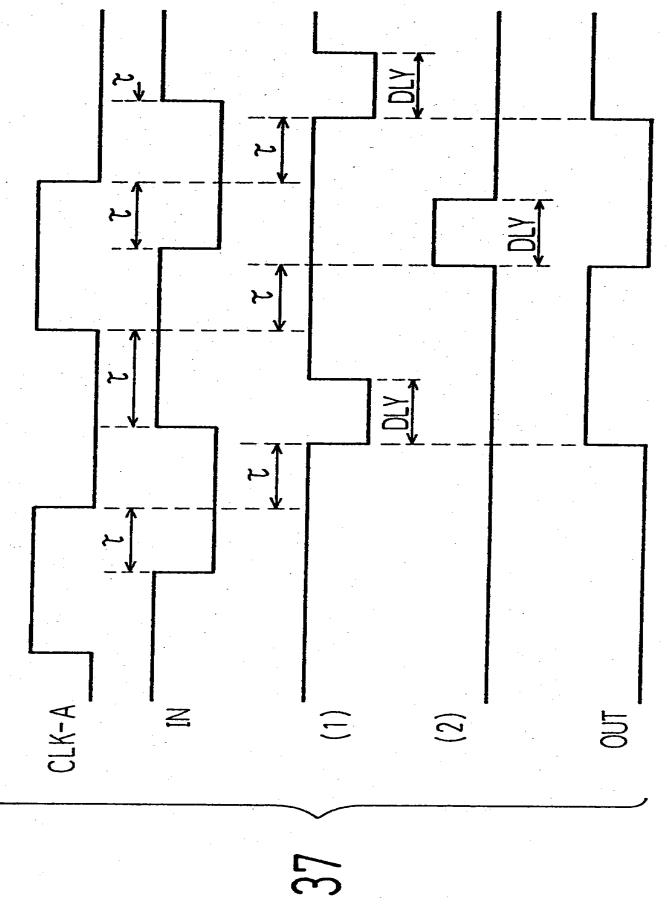
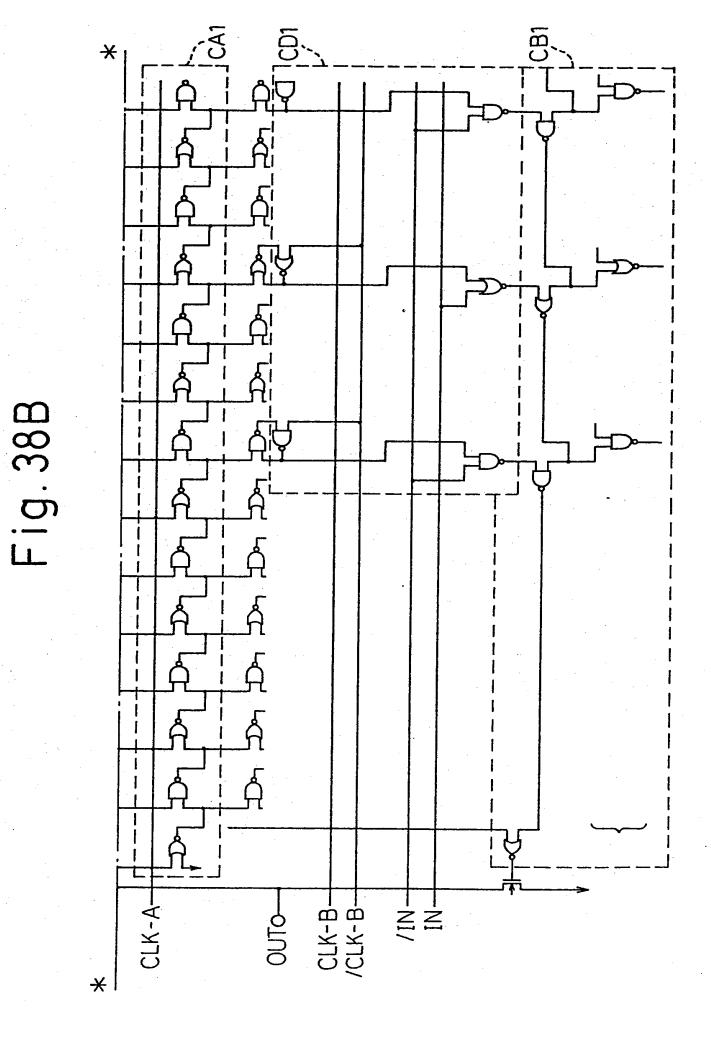
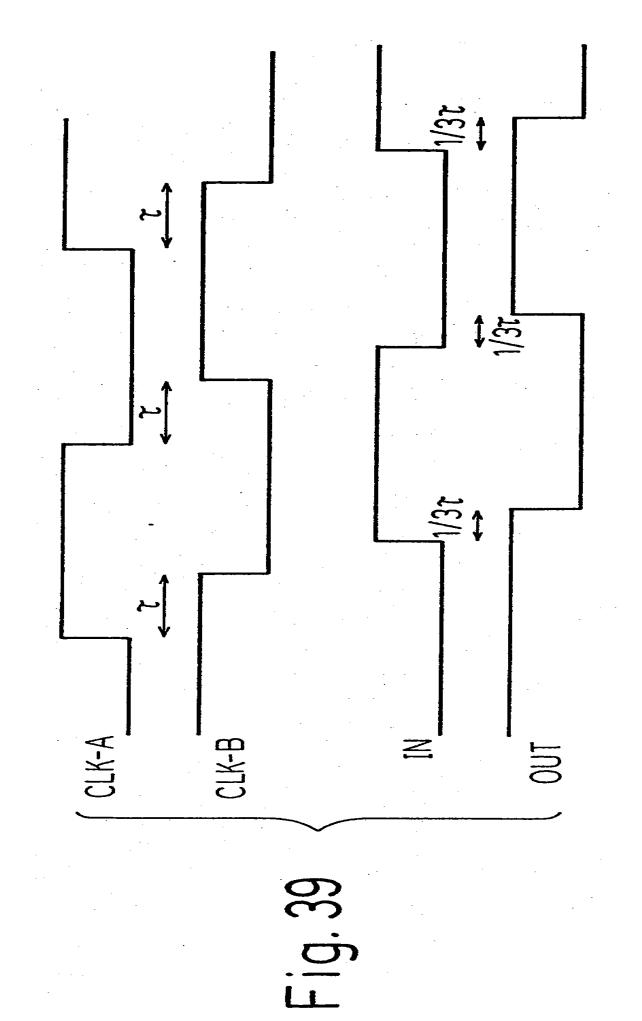


Fig. 37

Fig. 38A





CLK-B-N N *

Fig. 40A

Fig. 40B /CLK-B-29 ×

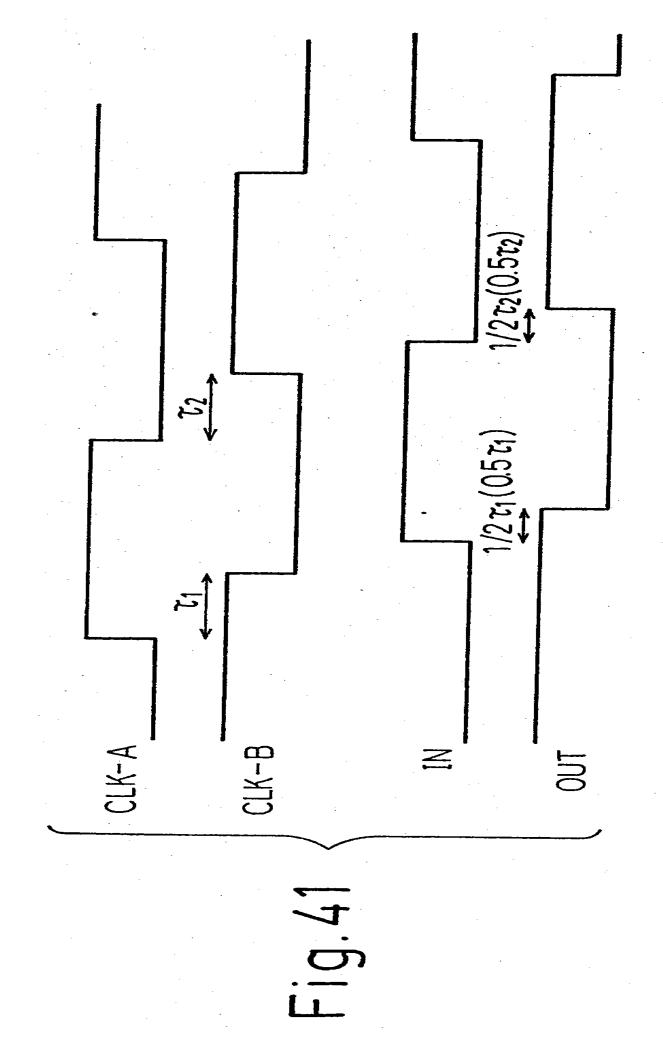


Fig. 42A

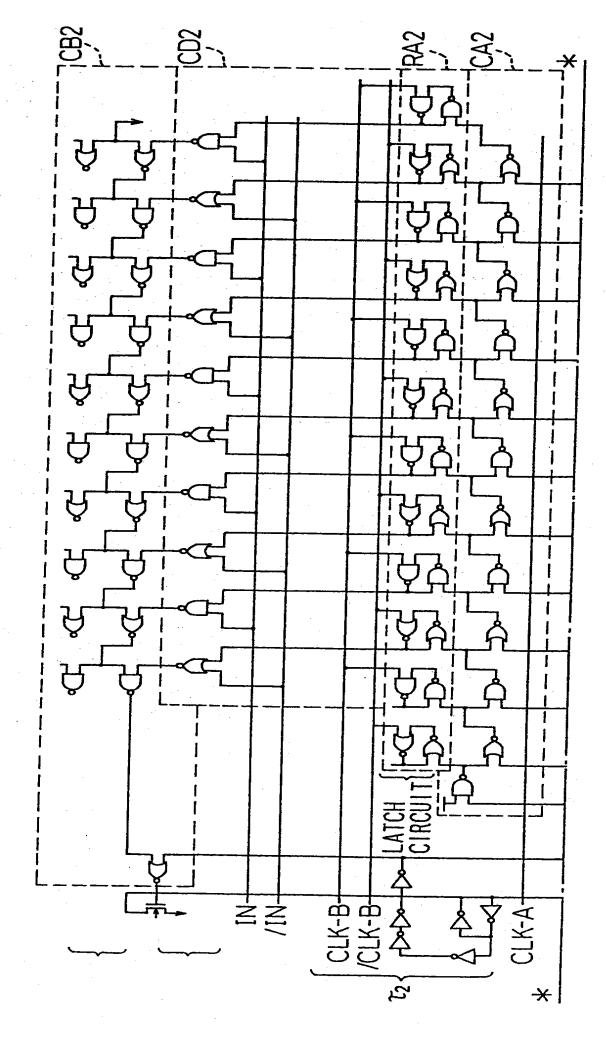
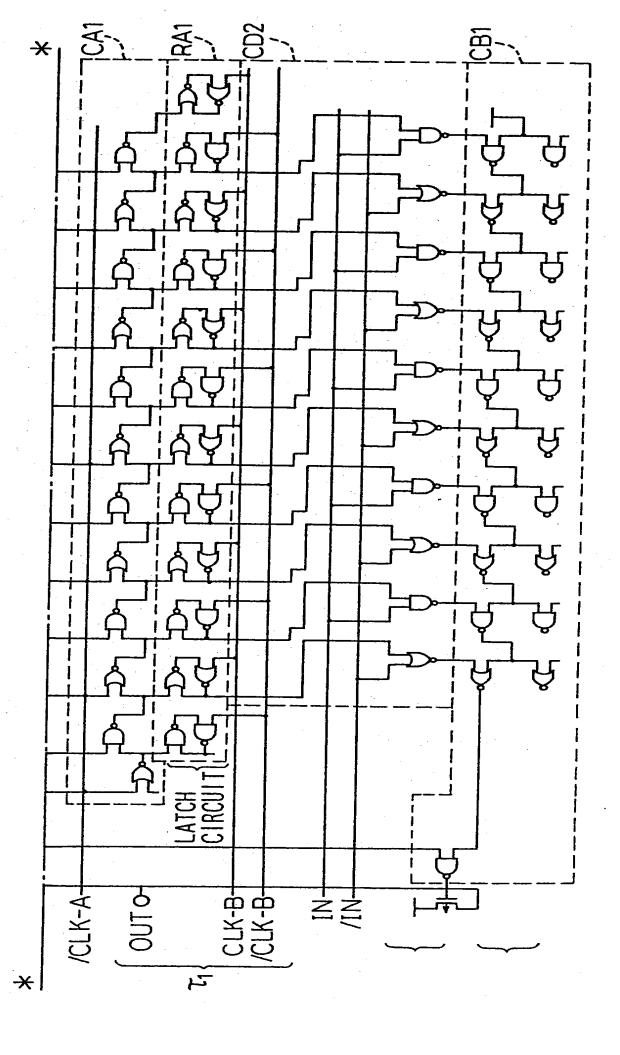


Fig.42B



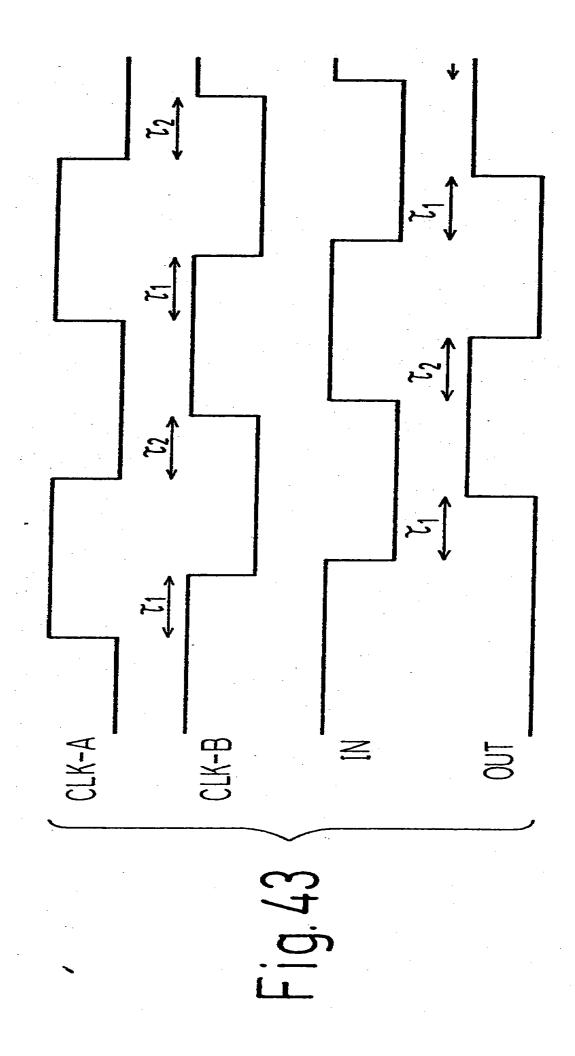


Fig.44A

*

(B3 /CLK-A-ACLK-B-CLK-B--N1/ ×Ι

Fig. 44B

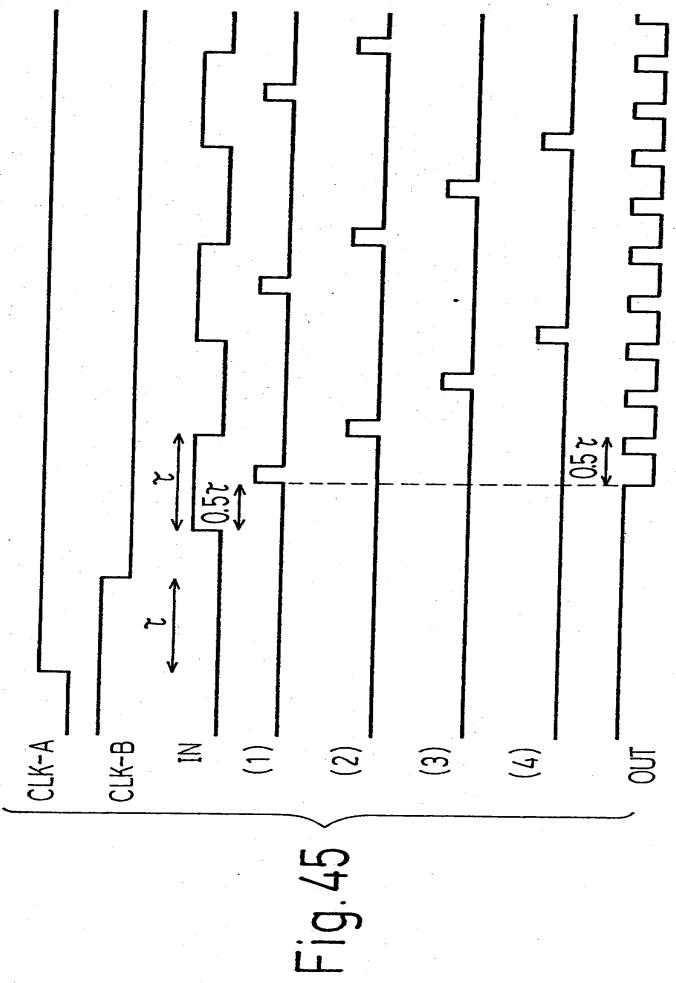


Fig. 46

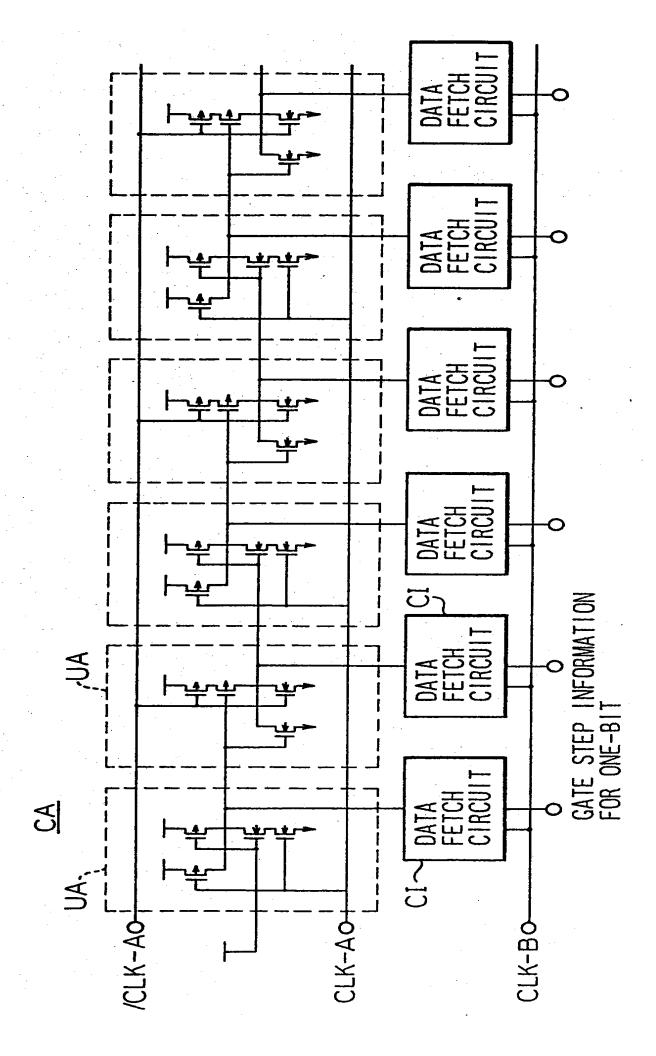


Fig. 48

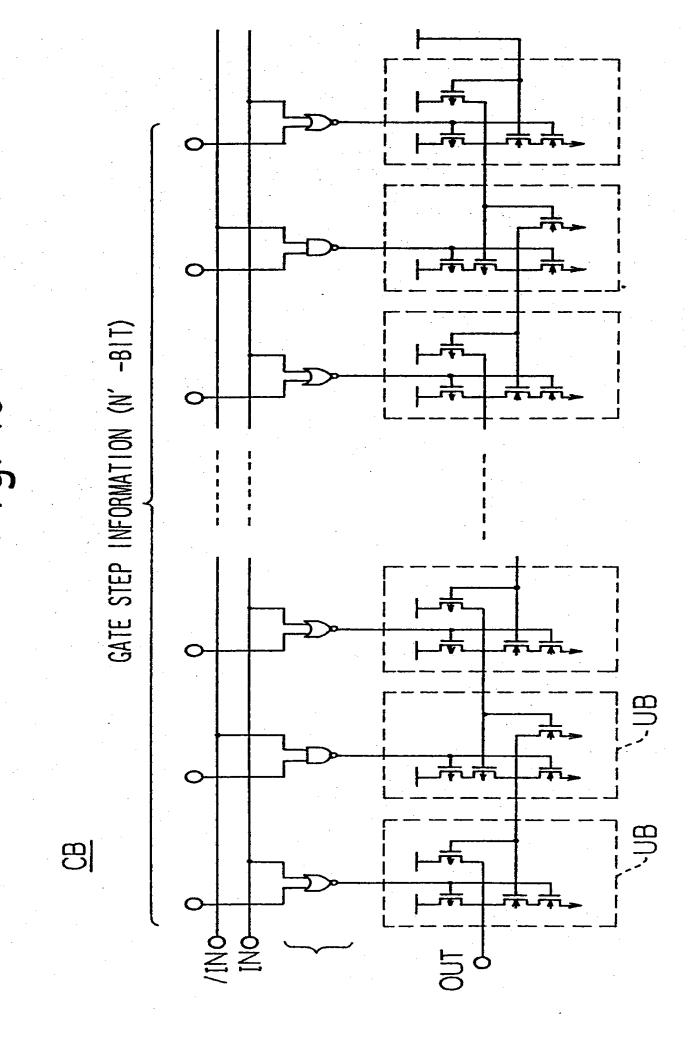
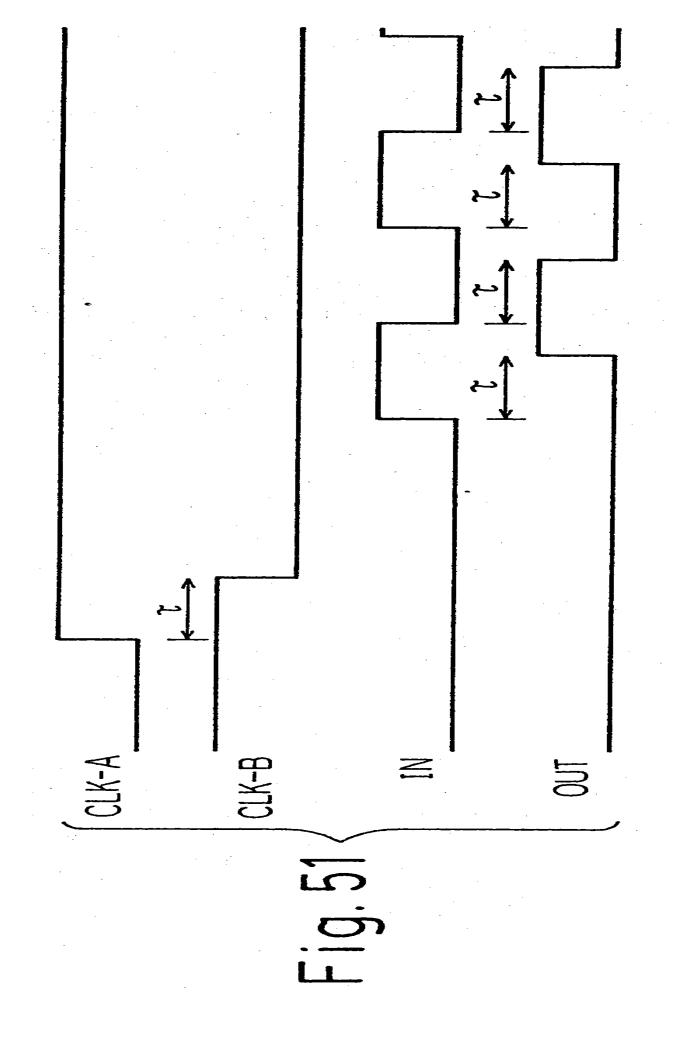


Fig. 49

8 * Fig. 50A N N N *

Fig. 50B



CB2 * NI NI *

Fig. 52A

* Fig. 52B CLK-AT ACLK-B-CLK-B-×

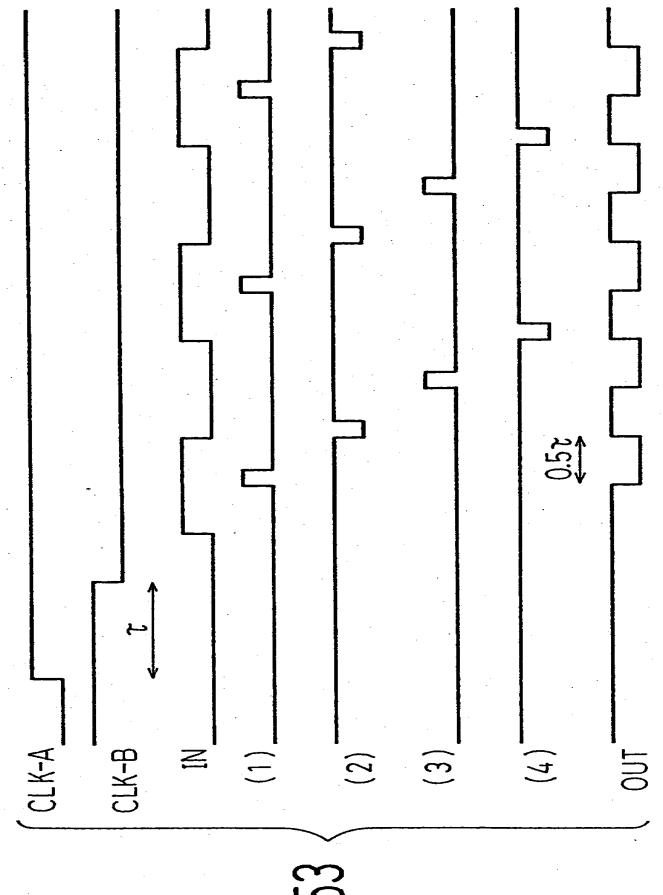


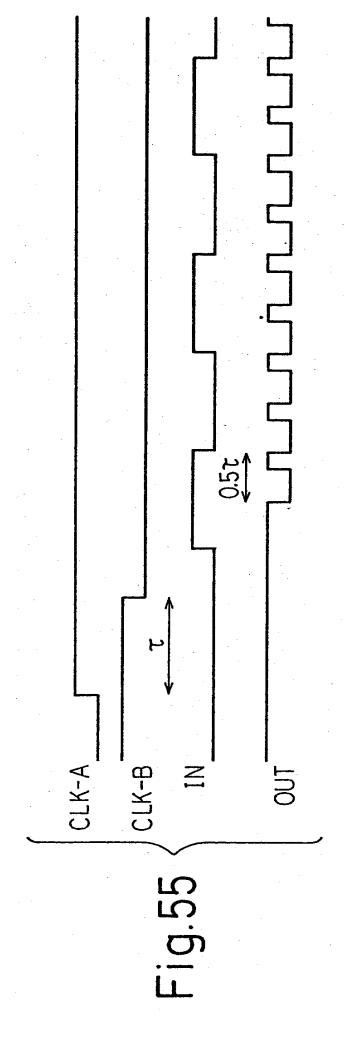
Fig. 53

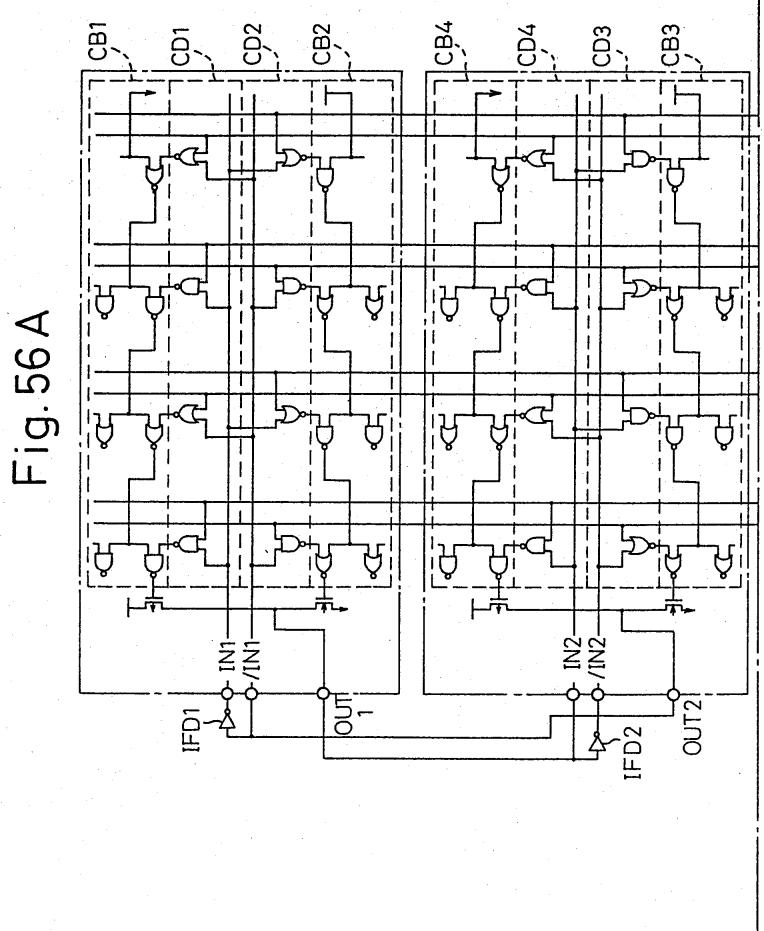
CB2 \star

Fig. 54A

***** , /CLK-A-/CLK-B-CLK-B-*

Fig. 54B

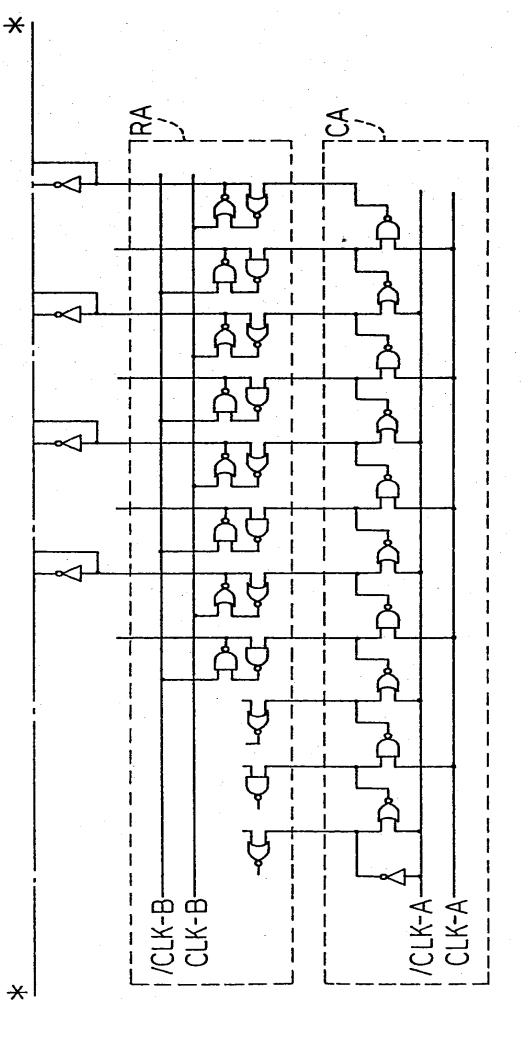


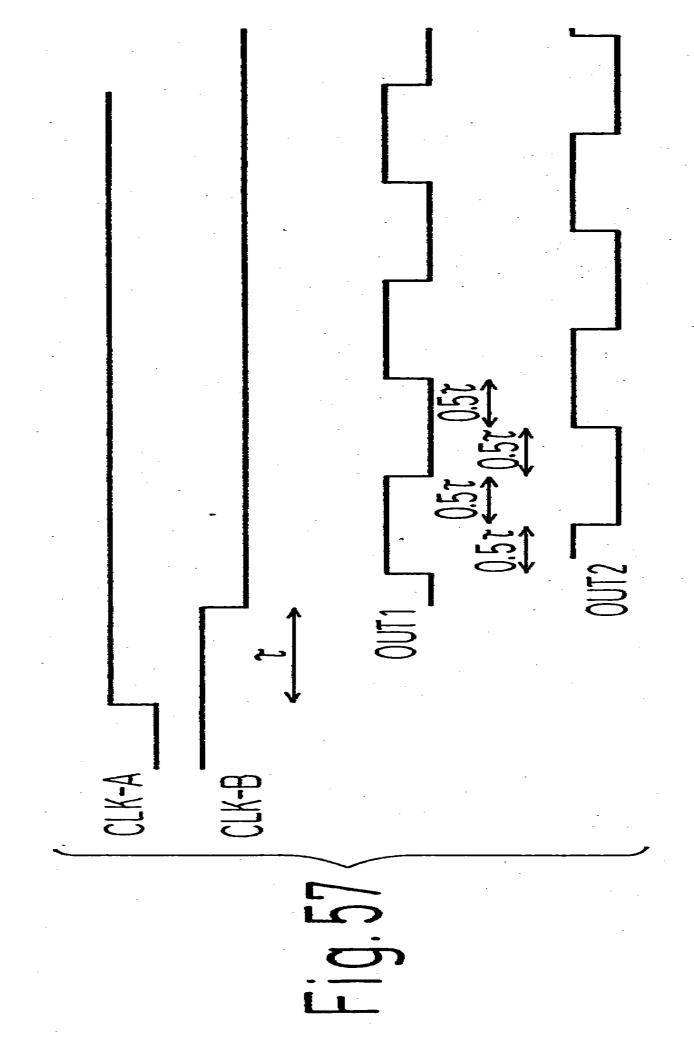


*

*

Fig. 56B





* Fig. 58A DA2 IN2 χl

Fig. 58B

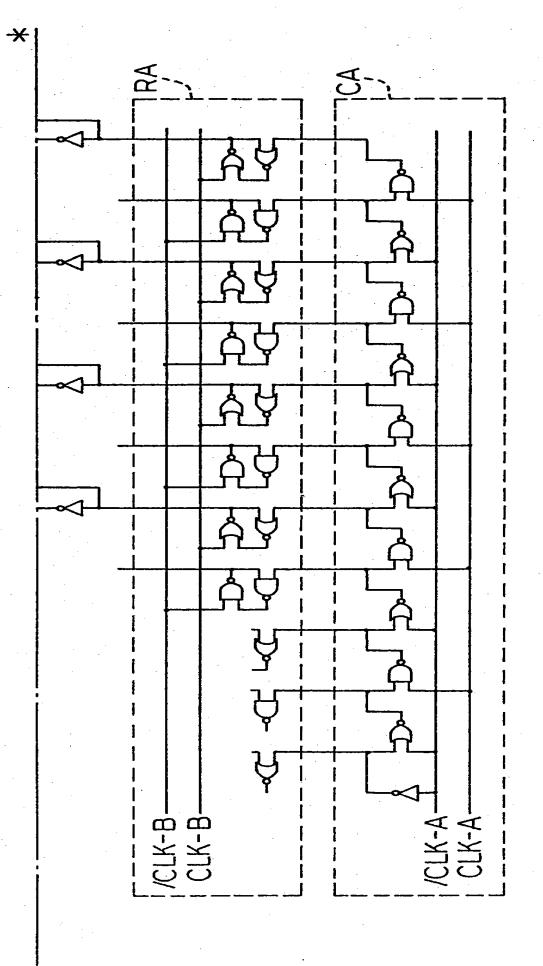


Fig.59

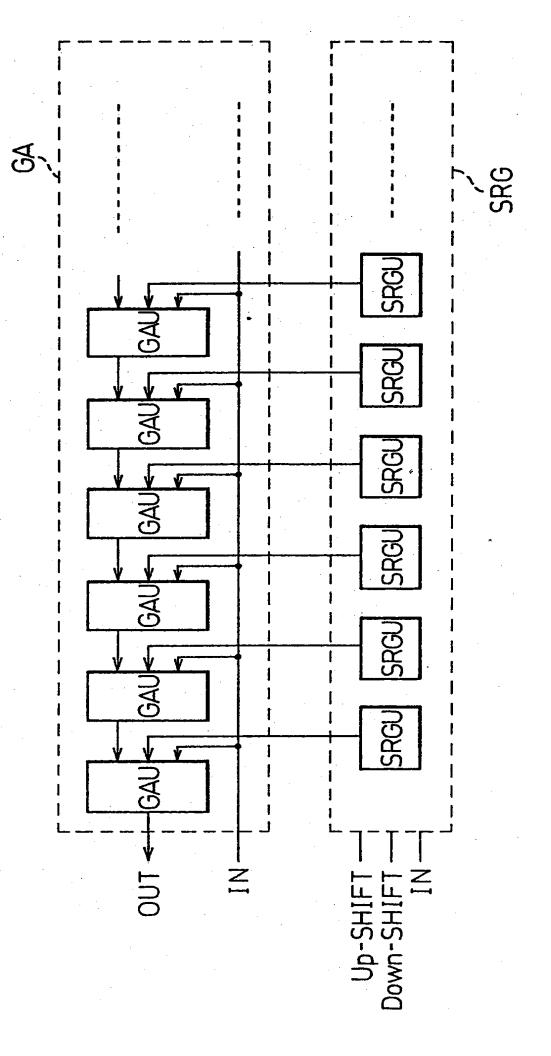
86 WRITE— IN— ADDRESS— I N

Fig.60

WRITE -IN -ADDERESS -

Fig.61

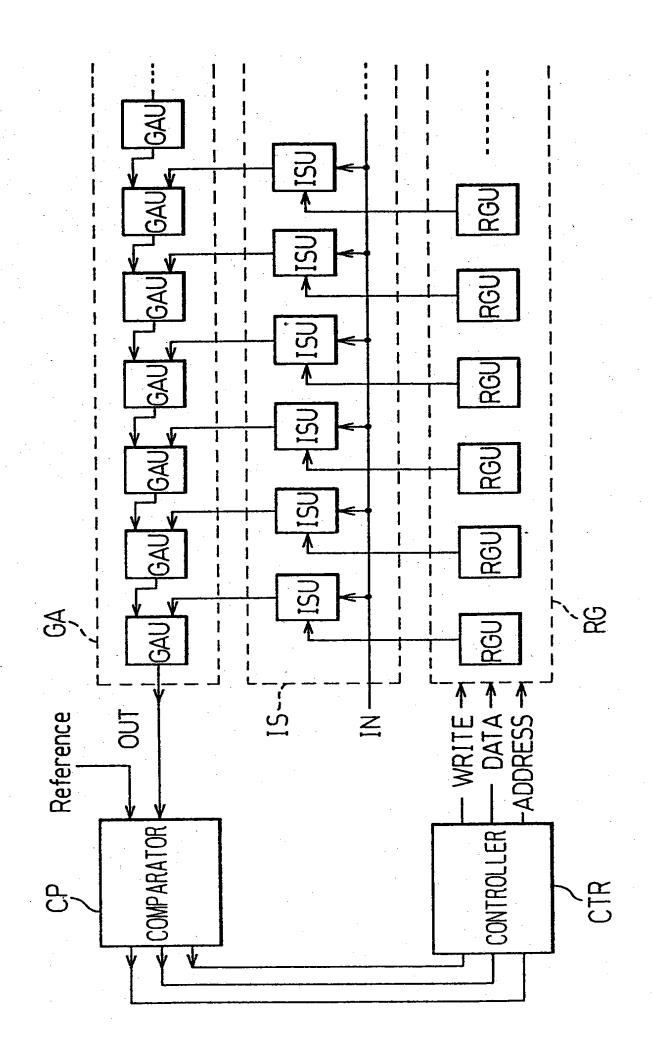
Fig.62

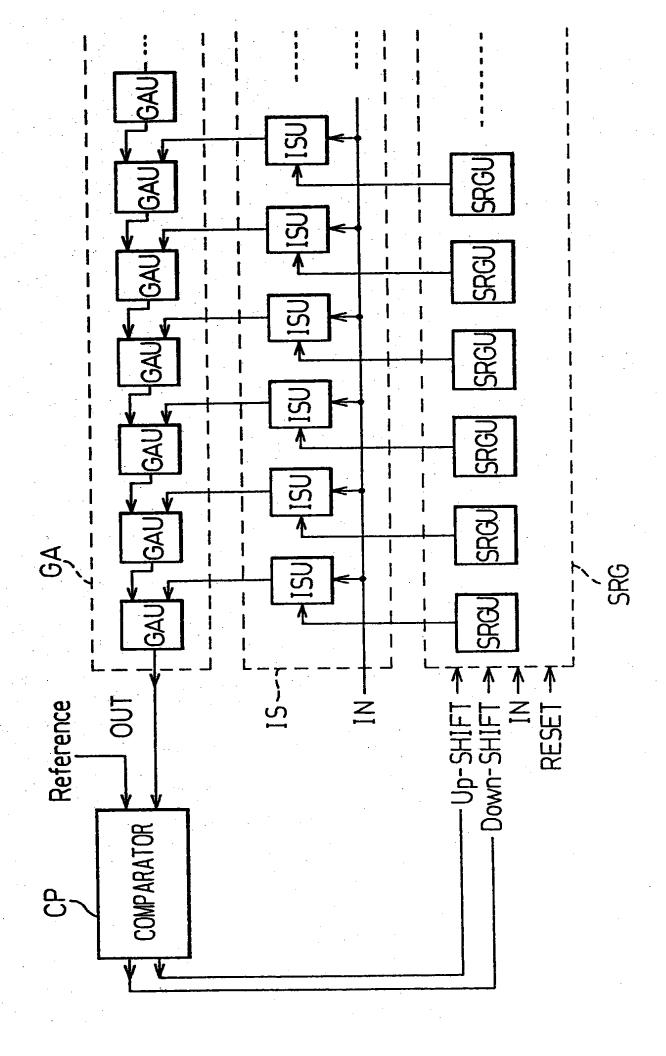


SŔĠ Up-SHIFT -- Down-SHIFT -- IN-

Fig.63

Fig. 64





Z

Fig.66A

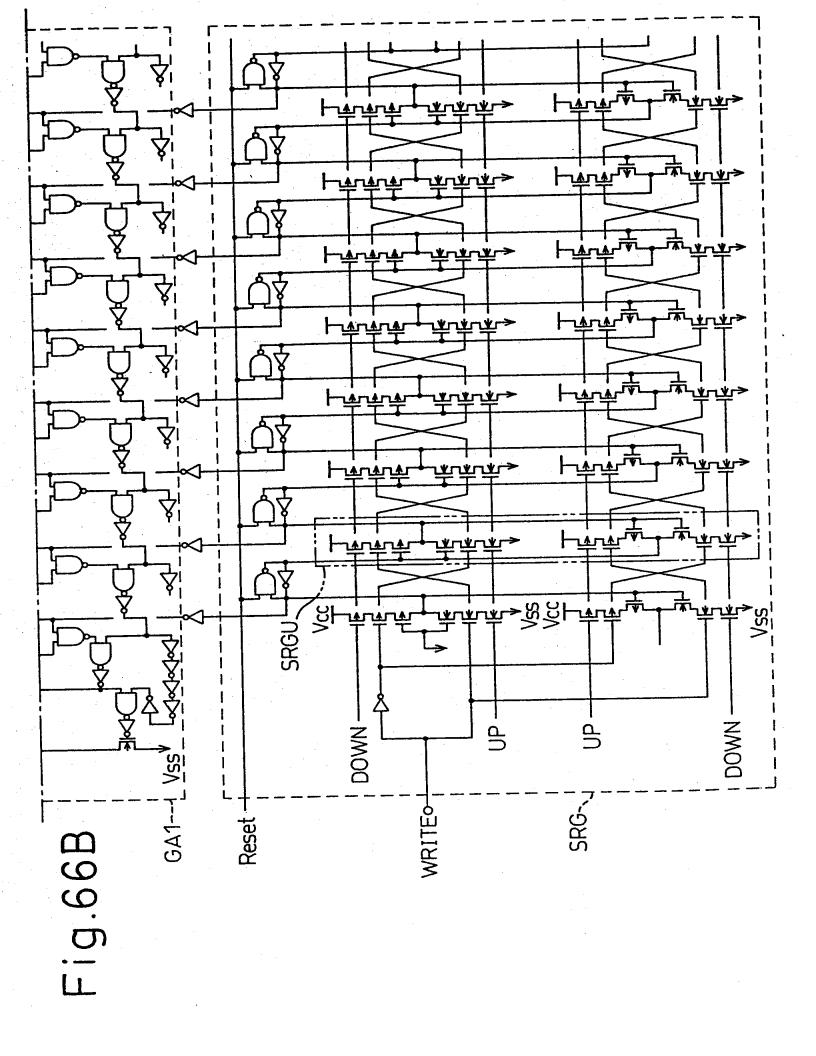


Fig.67